

**Technical Memorandum 2-5**

**Water Temperature Monitoring**

**Attachment 2-5C**

**Reservoir Water Temperature and  
Dissolved Oxygen Data**

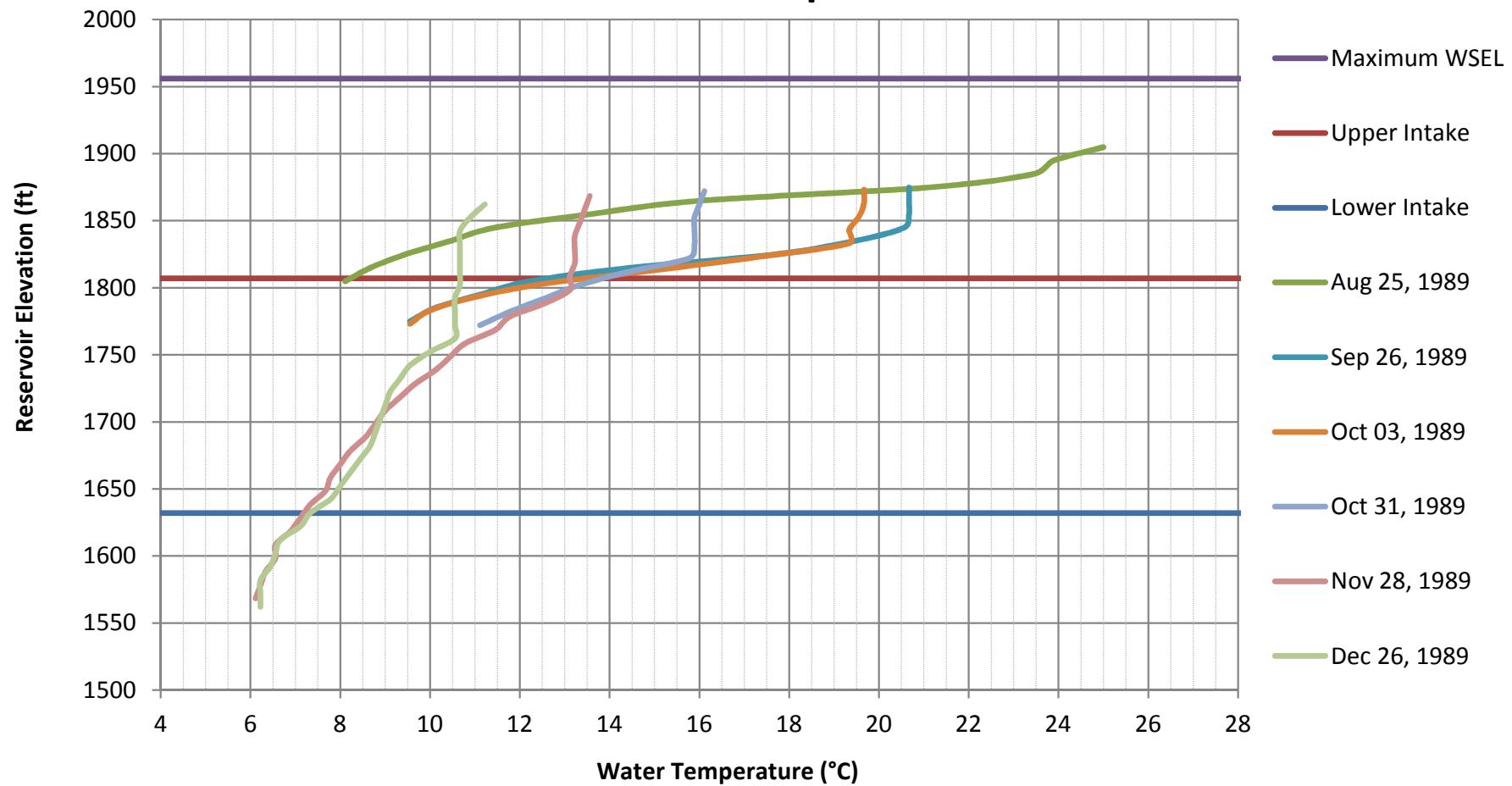
**Yuba River Development Project  
FERC Project No. 2246**

September 2013

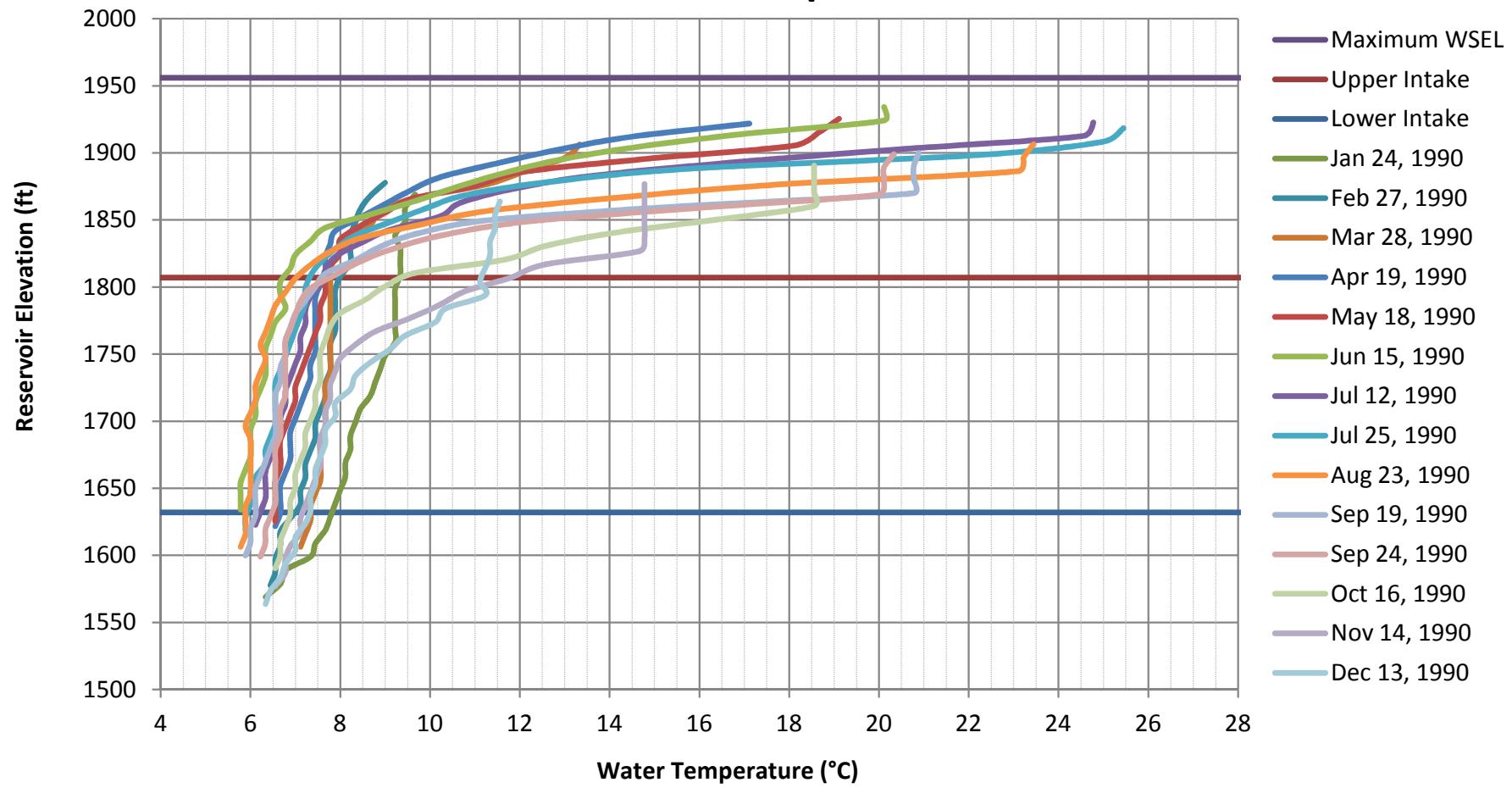
©2013, Yuba County Water Agency  
*All Rights Reserved*



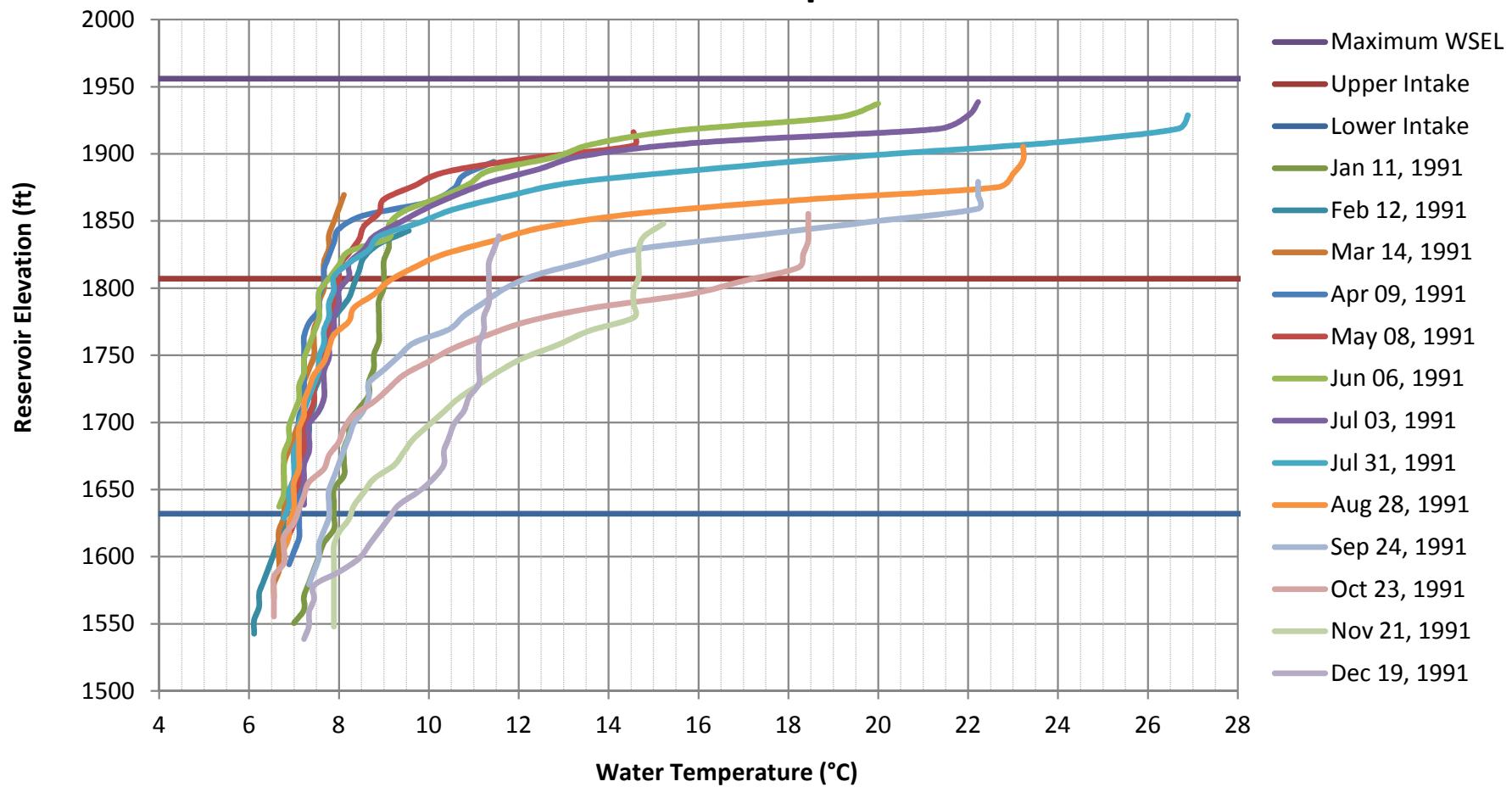
## New Bullards Bar Water Temperature Profiles - 1989

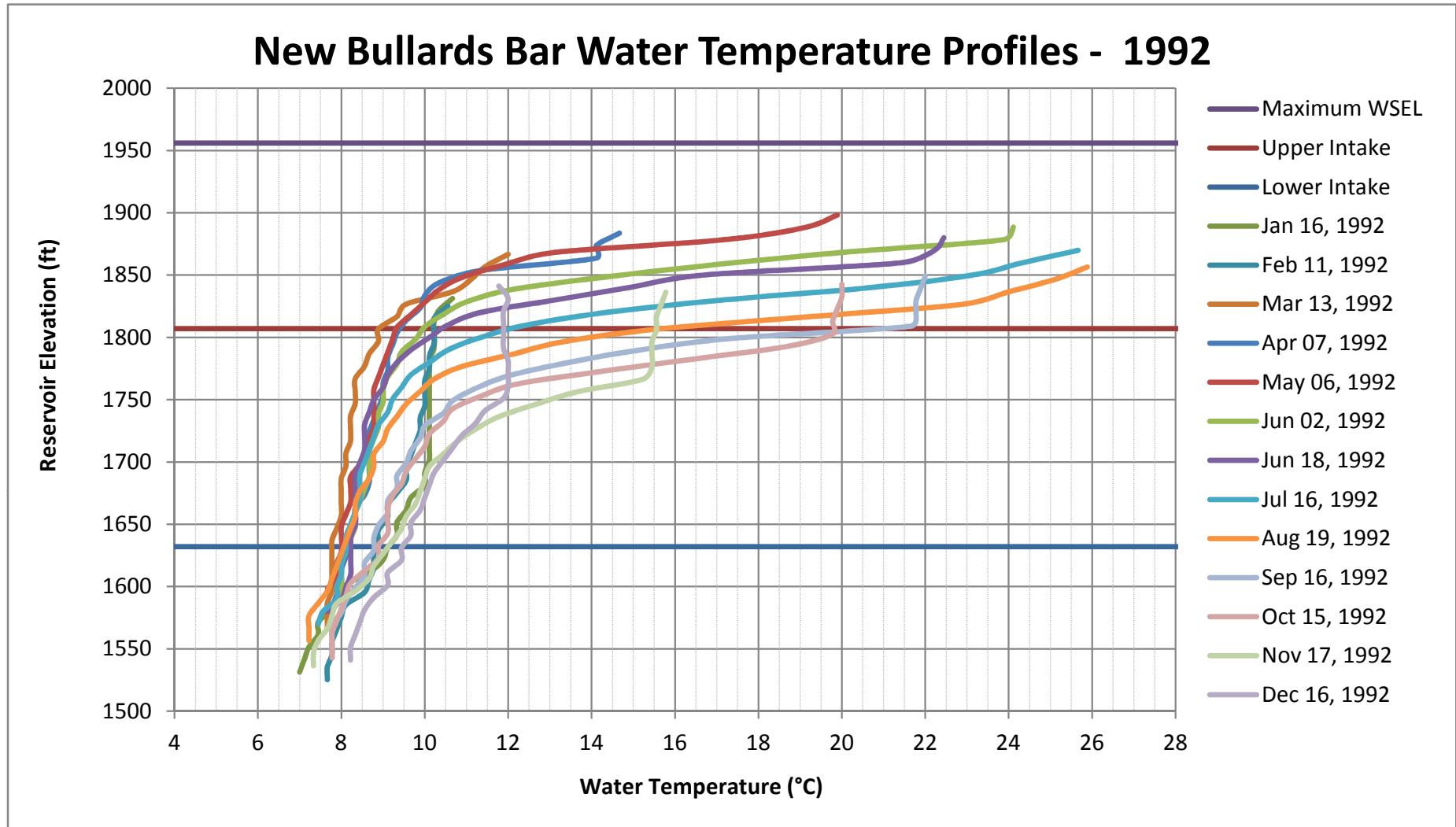


## New Bullards Bar Water Temperature Profiles - 1990

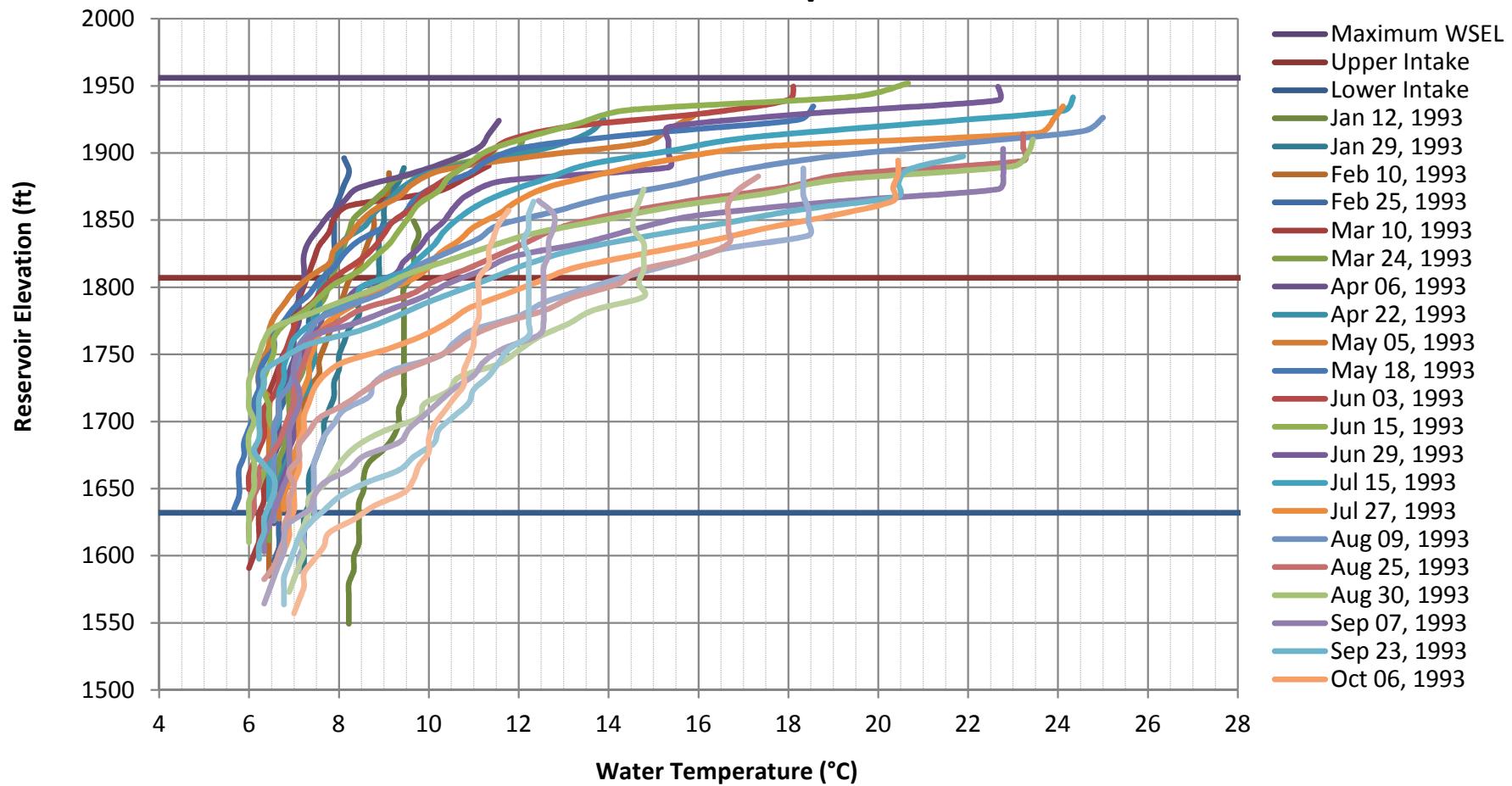


## New Bullards Bar Water Temperature Profiles - 1991

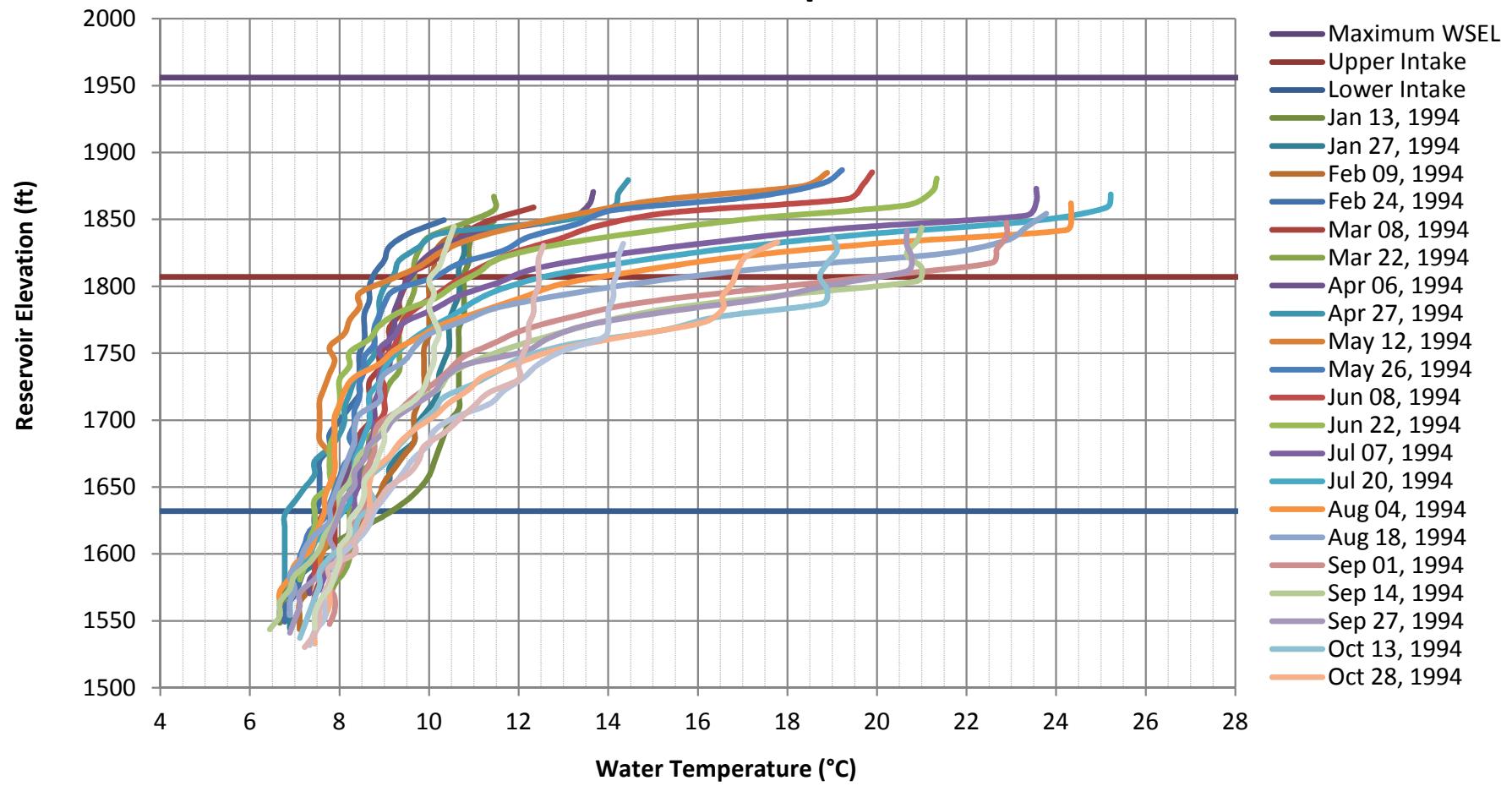




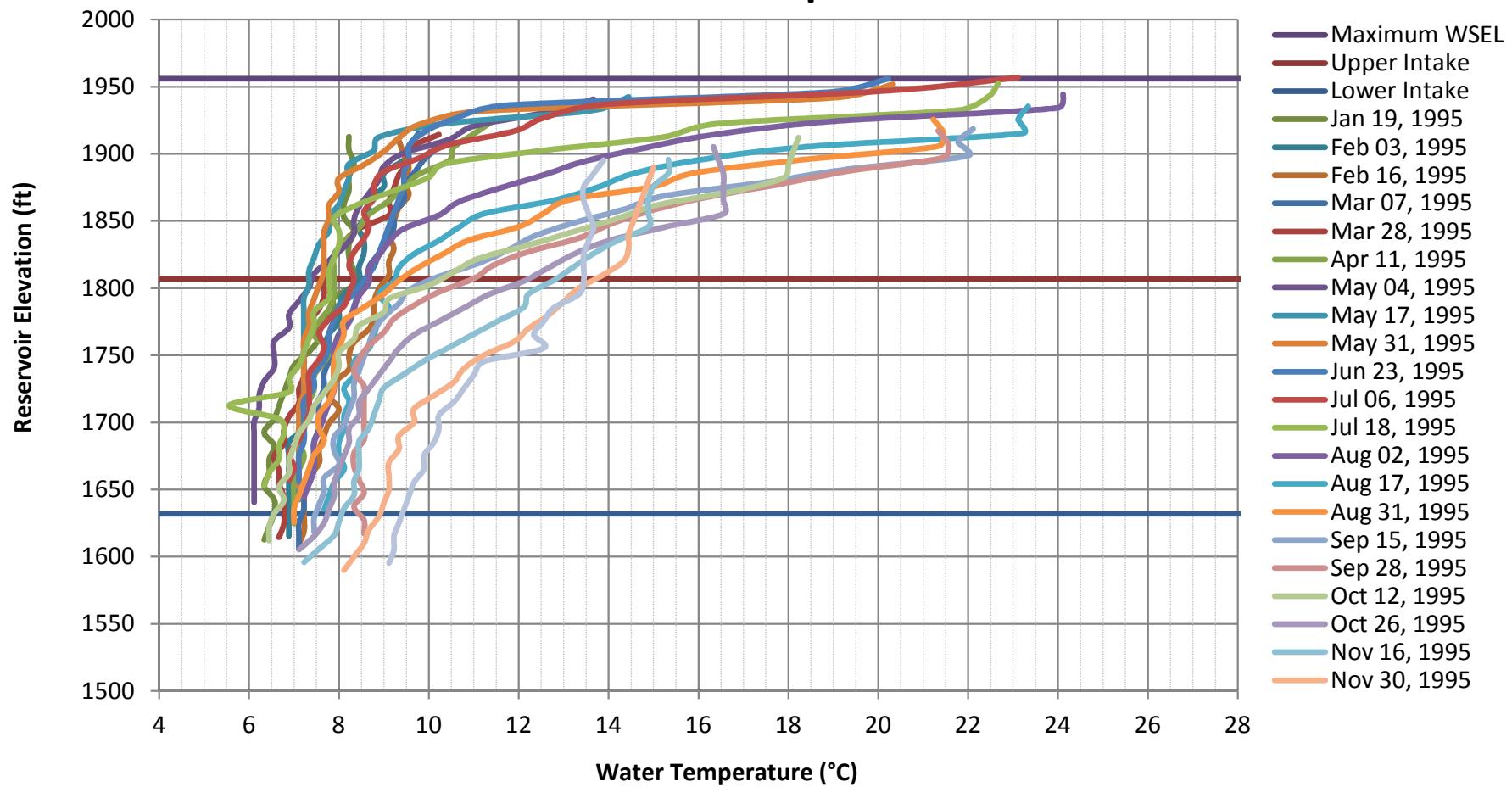
## New Bullards Bar Water Temperature Profiles - 1993



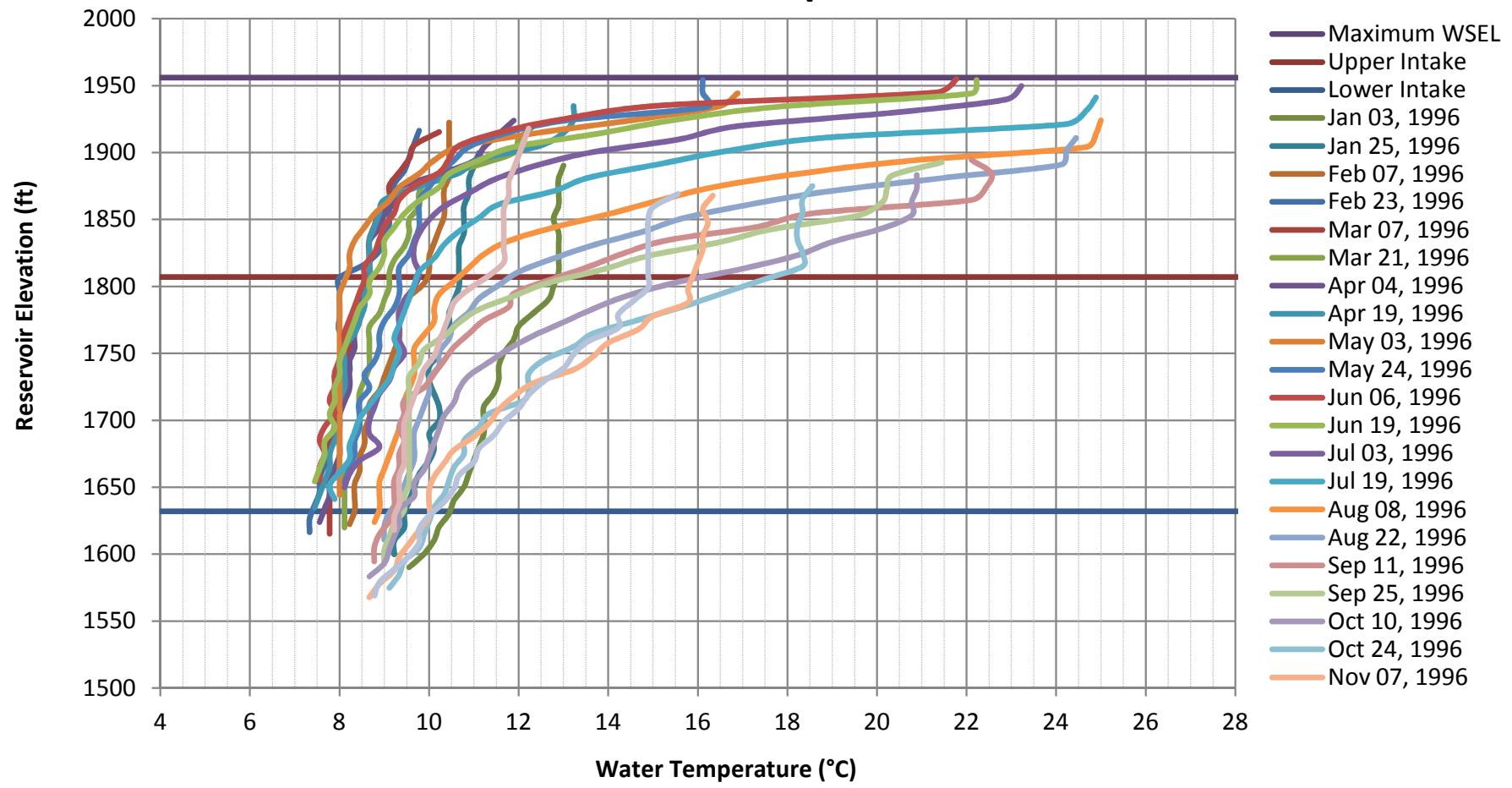
## New Bullards Bar Water Temperature Profiles - 1994



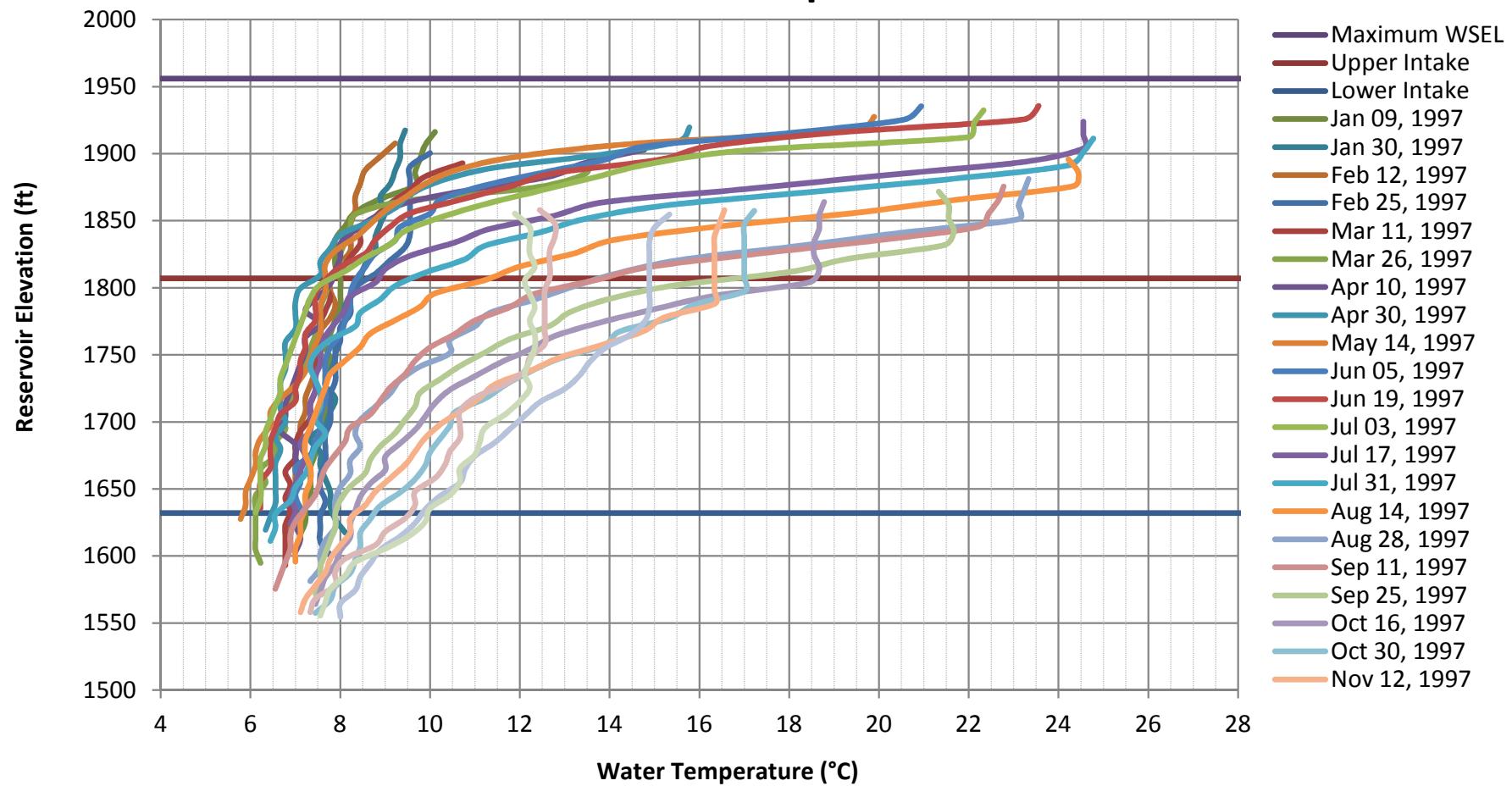
## New Bullards Bar Water Temperature Profiles - 1995



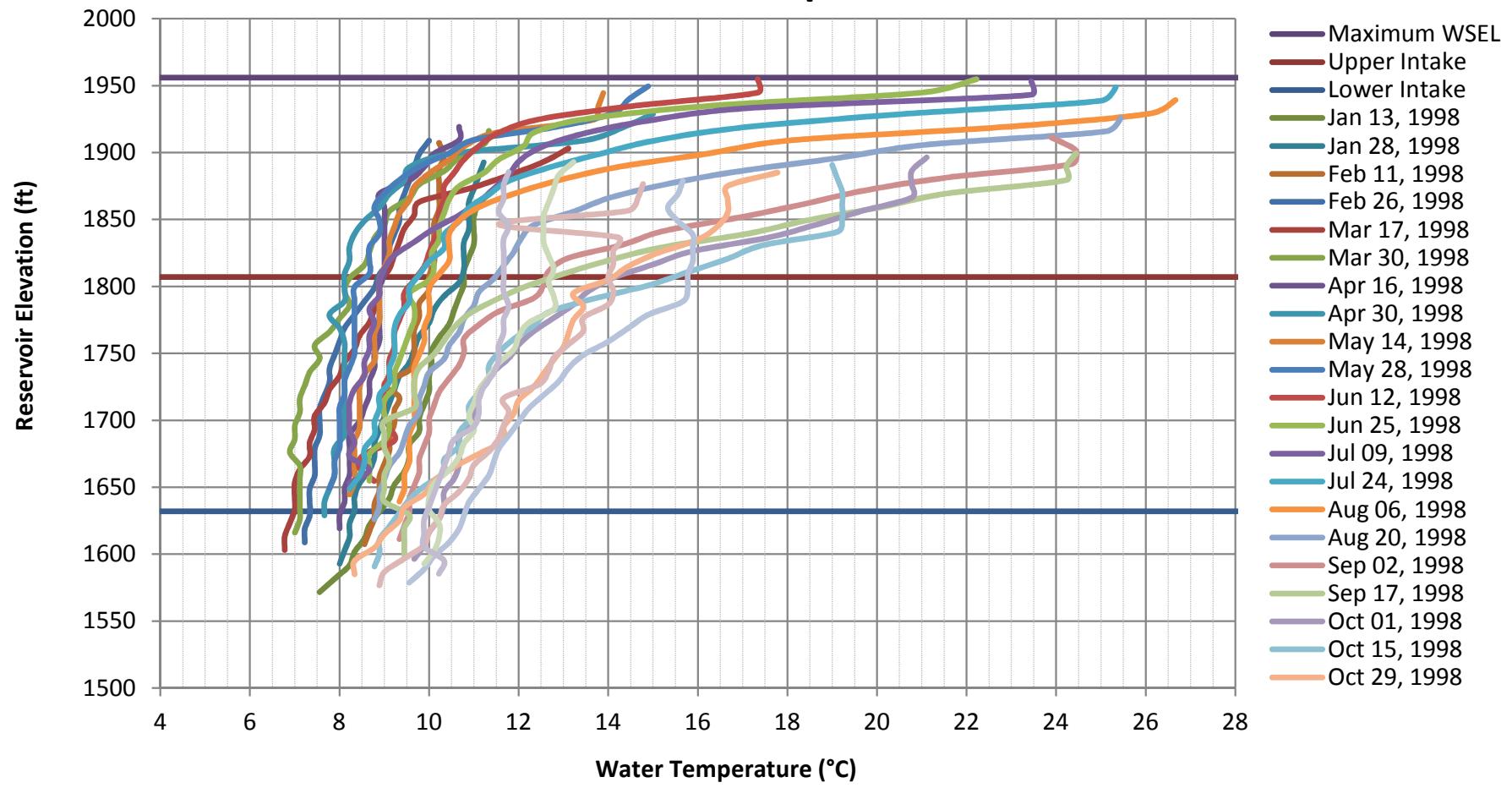
## New Bullards Bar Water Temperature Profiles - 1996



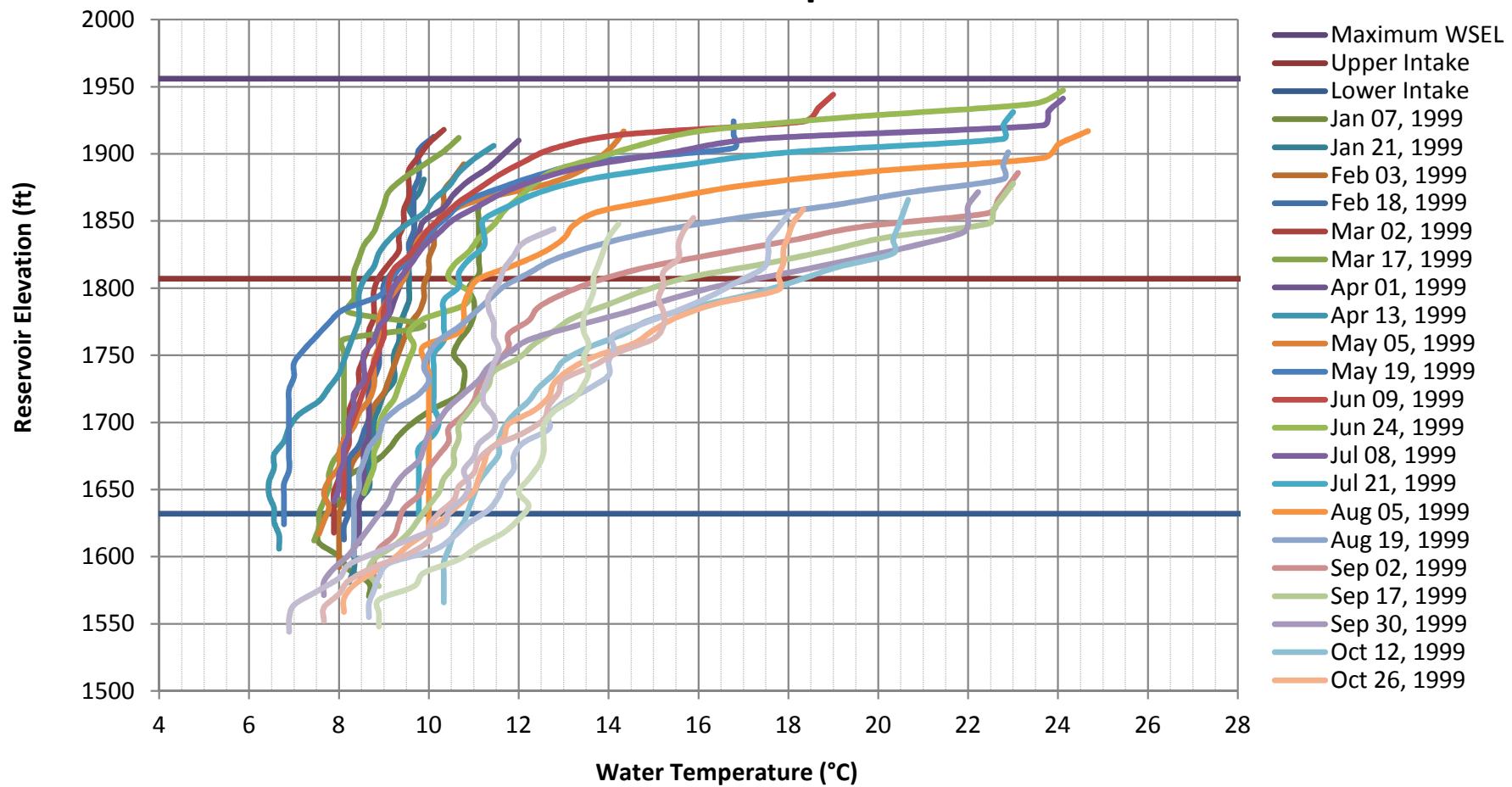
## New Bullards Bar Water Temperature Profiles - 1997



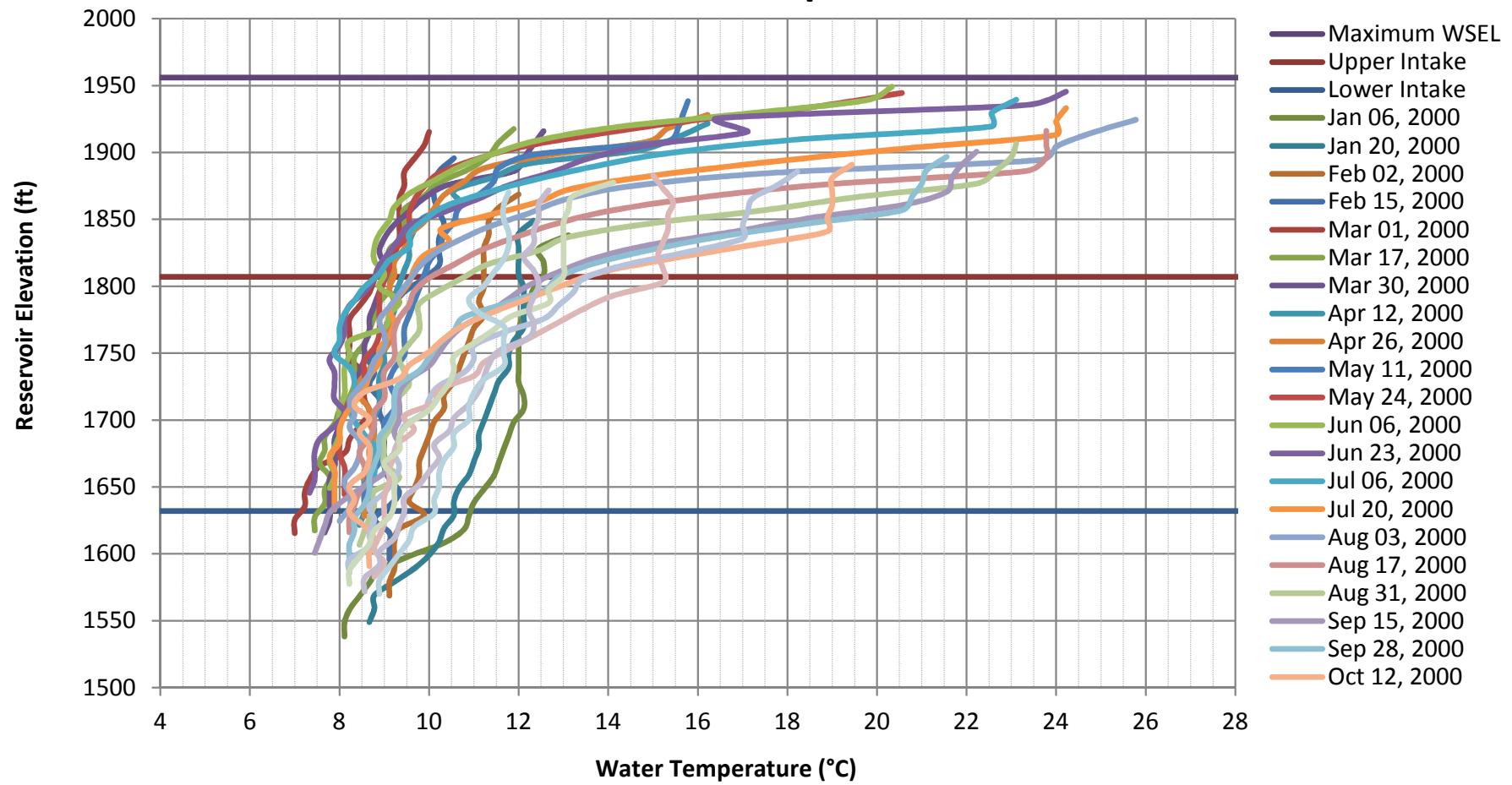
## New Bullards Bar Water Temperature Profiles - 1998



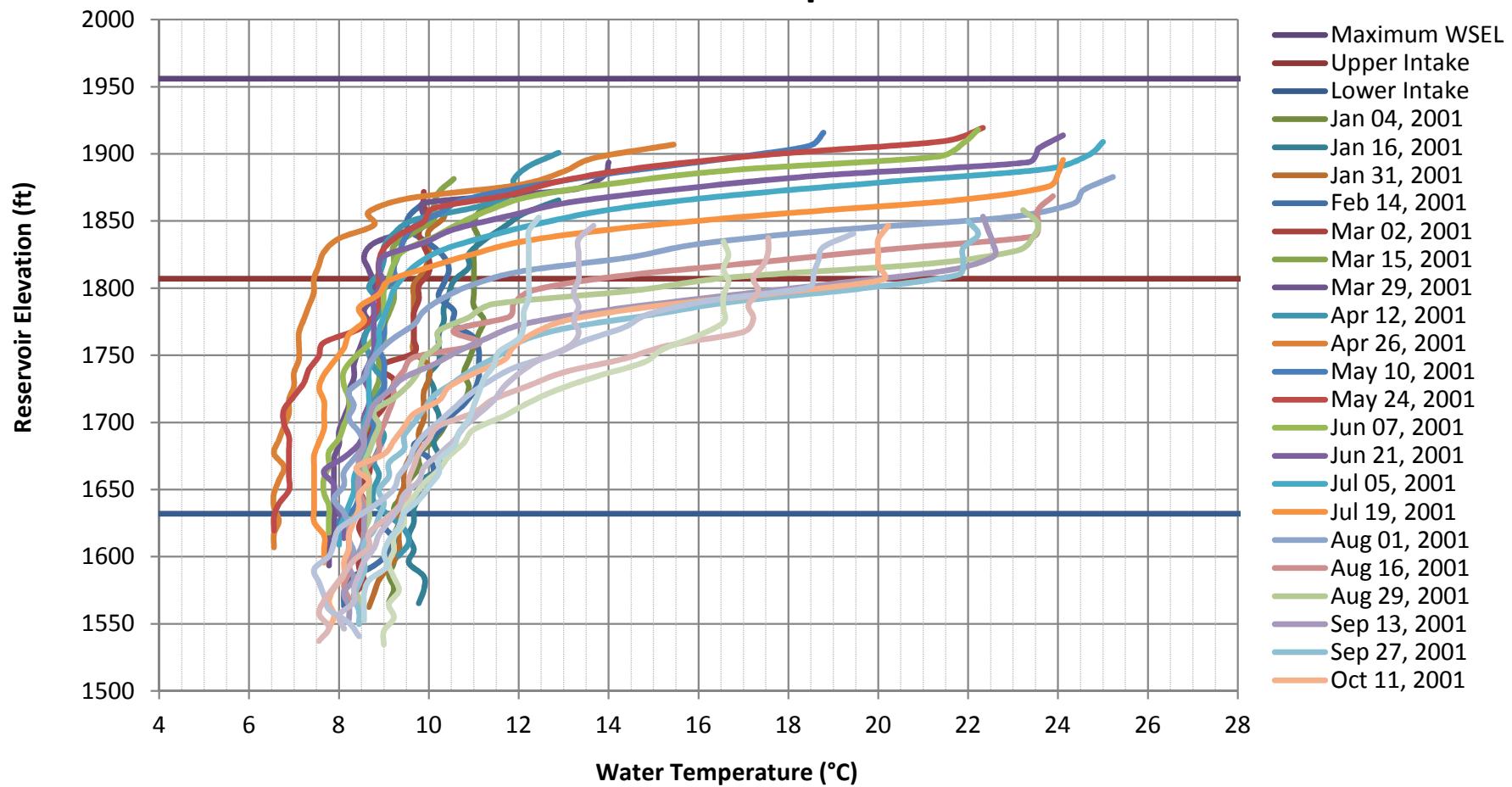
## New Bullards Bar Water Temperature Profiles - 1999



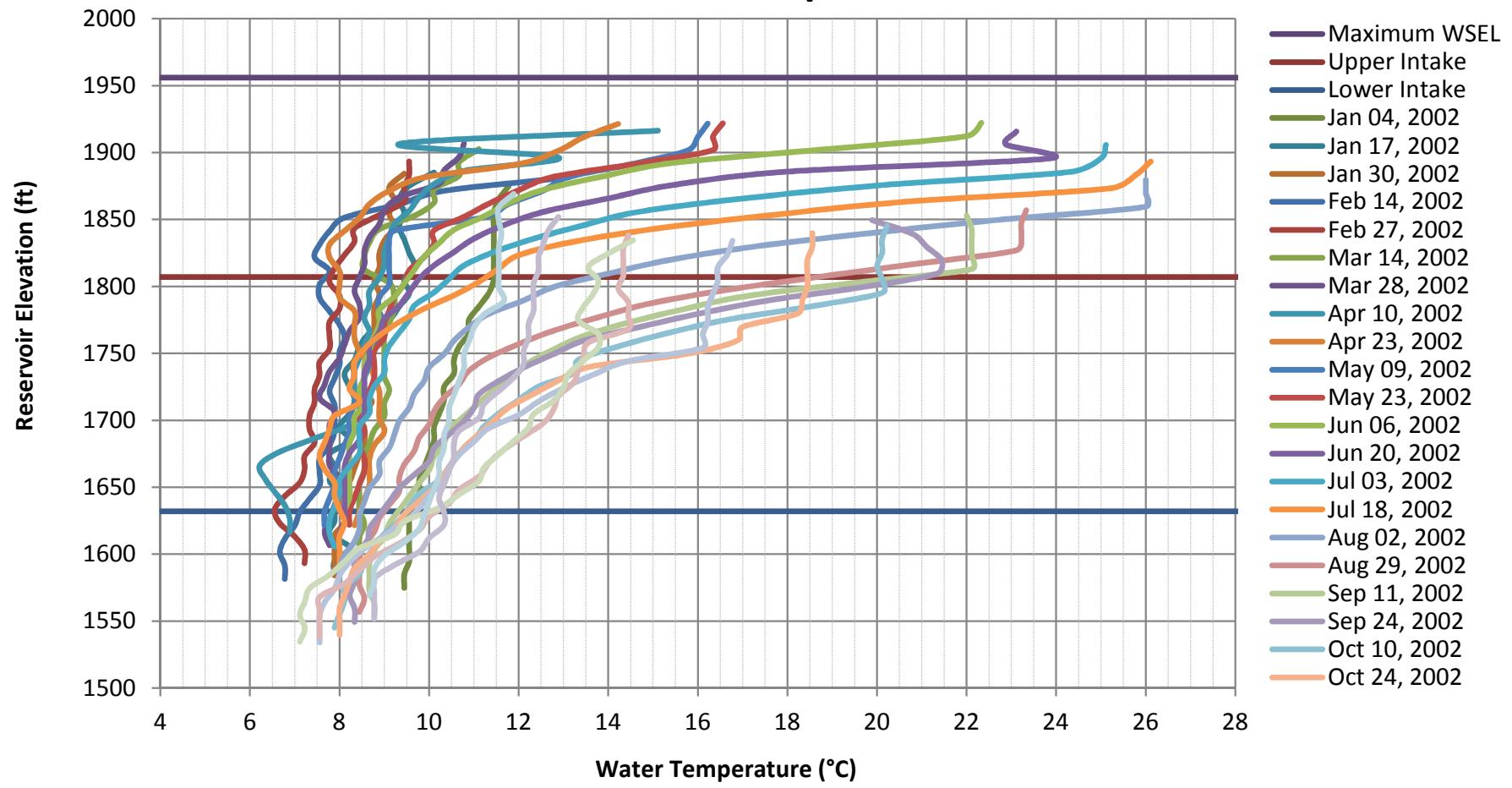
## New Bullards Bar Water Temperature Profiles - 2000



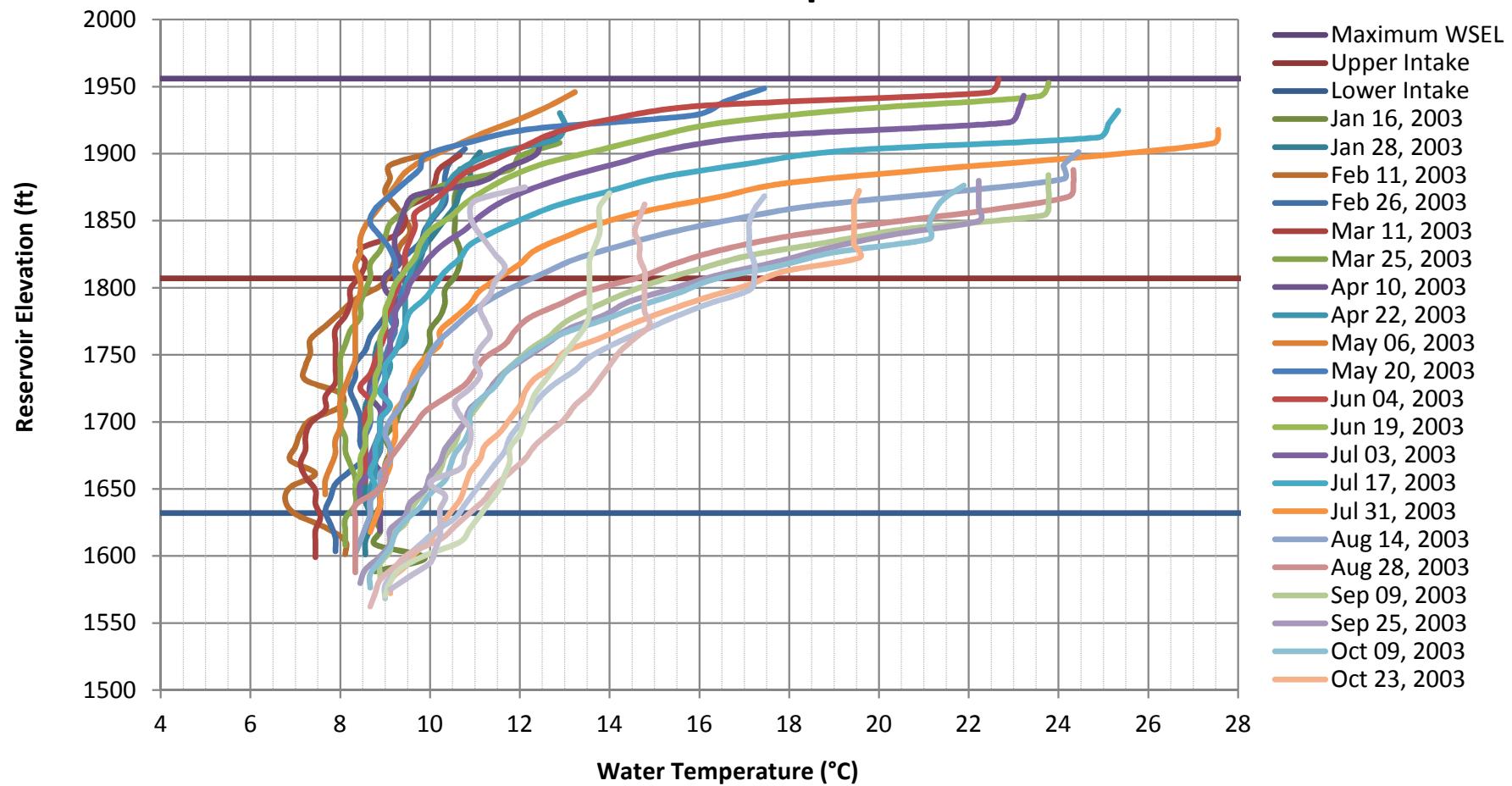
## New Bullards Bar Water Temperature Profiles - 2001



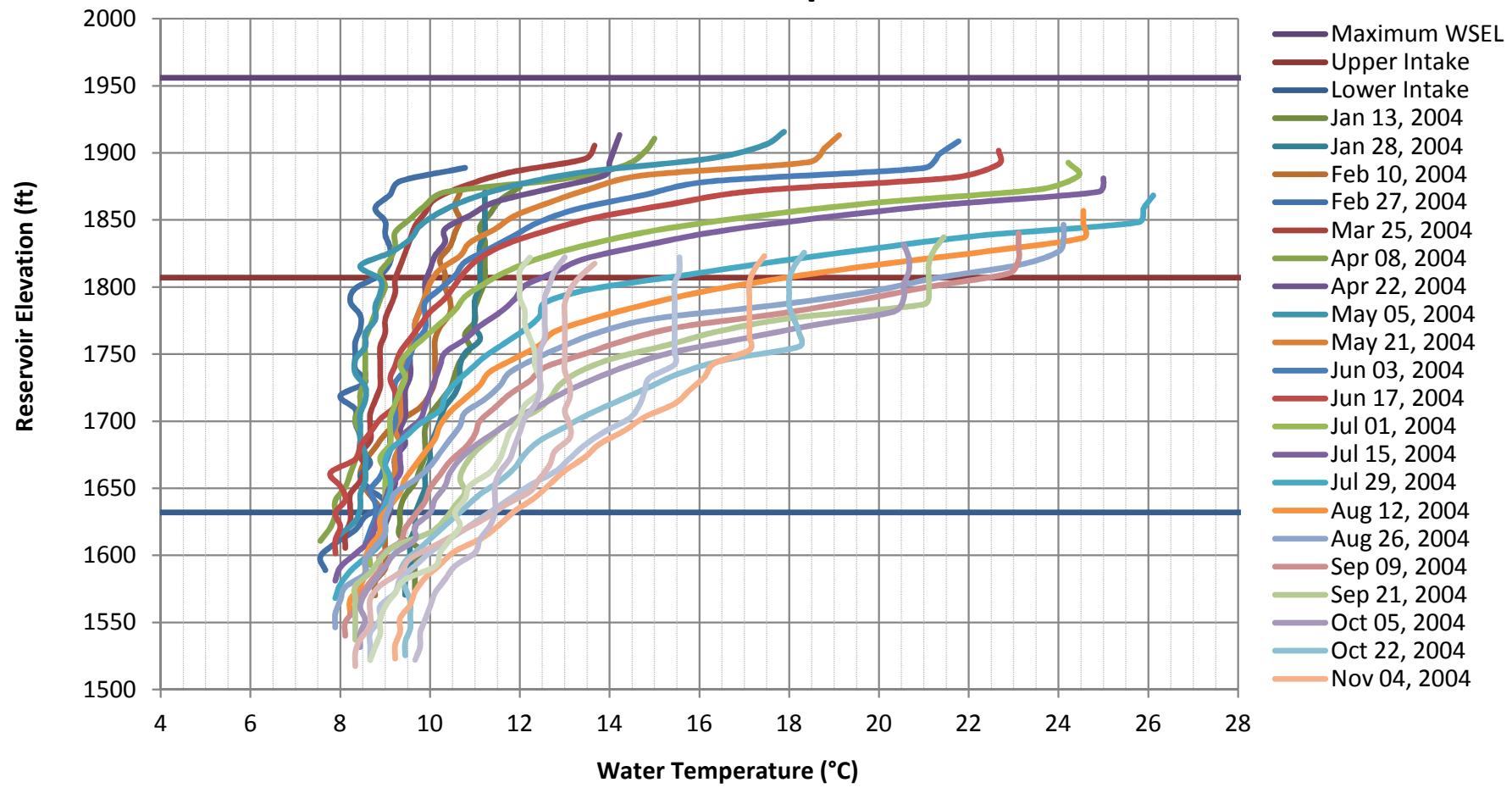
## New Bullards Bar Water Temperature Profiles - 2002



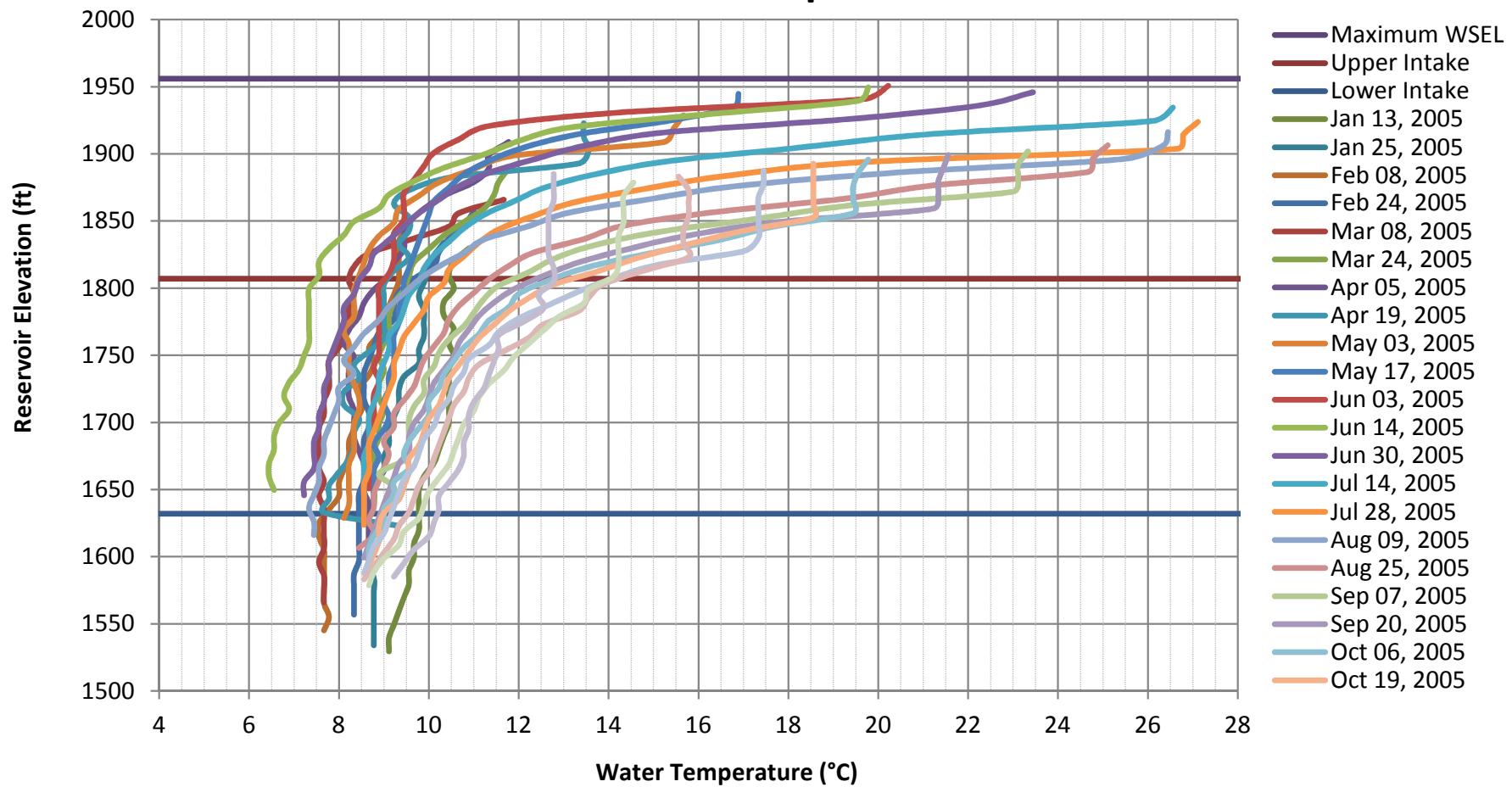
## New Bullards Bar Water Temperature Profiles - 2003



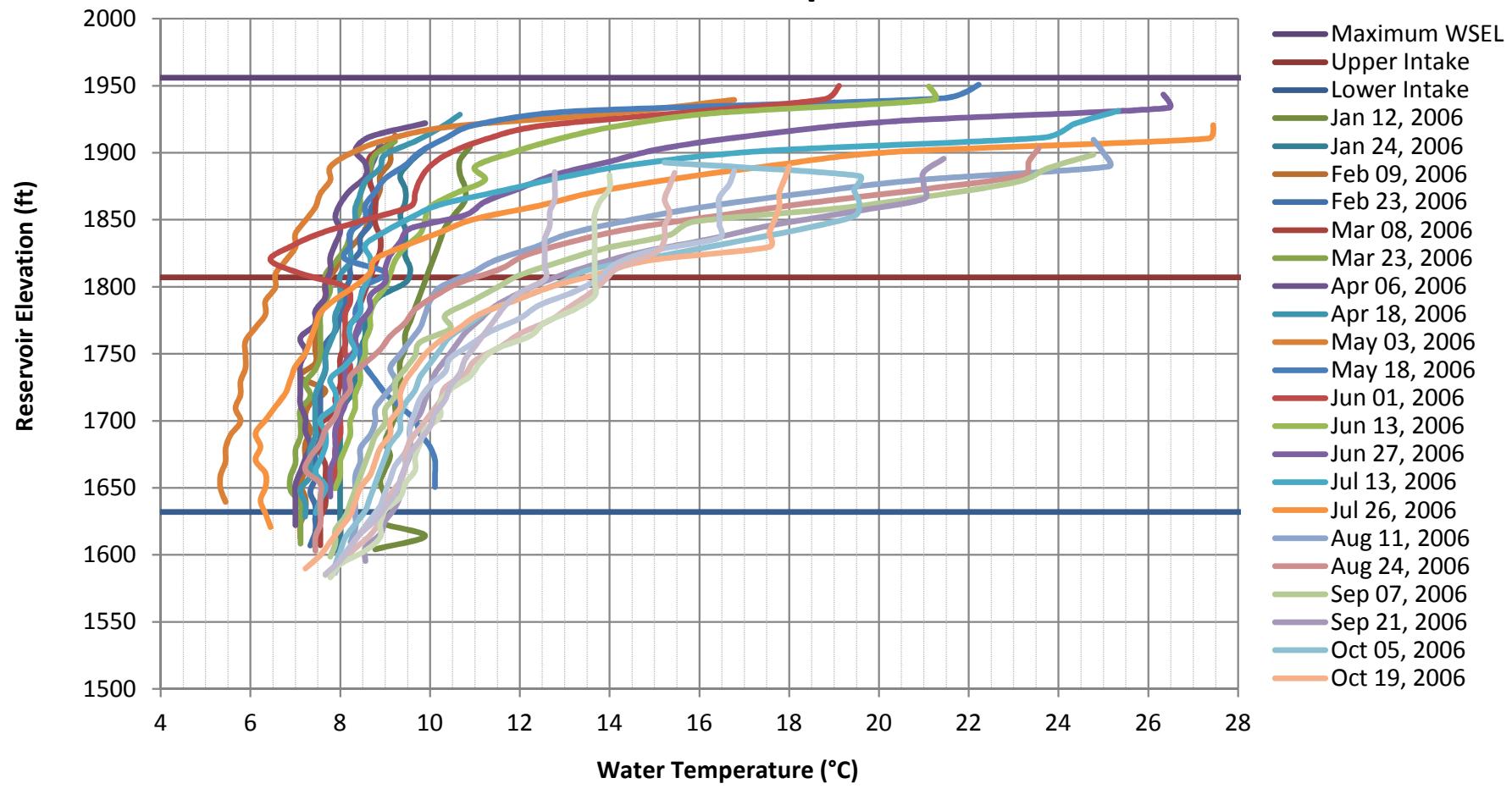
## New Bullards Bar Water Temperature Profiles - 2004



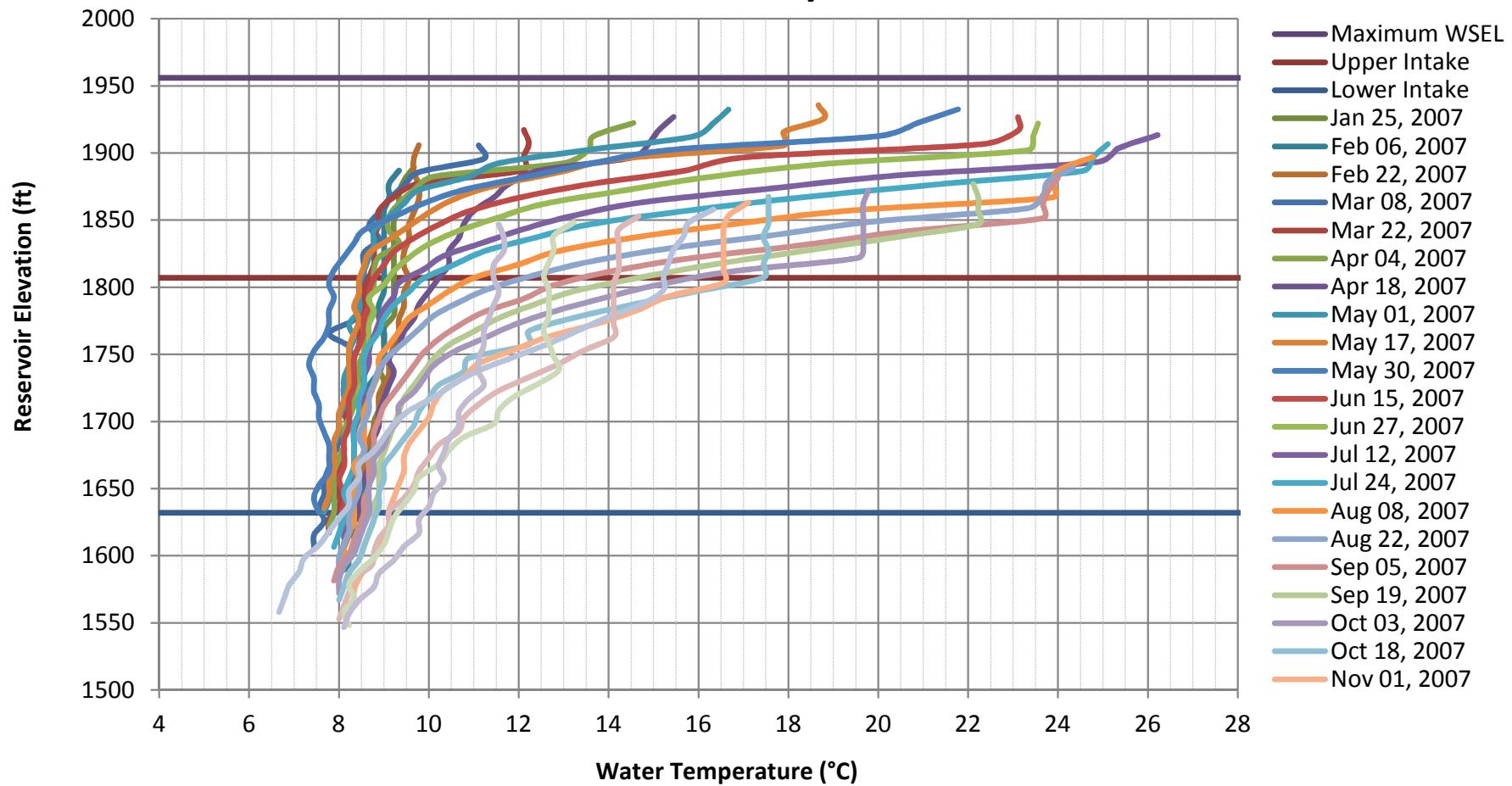
## New Bullards Bar Water Temperature Profiles - 2005



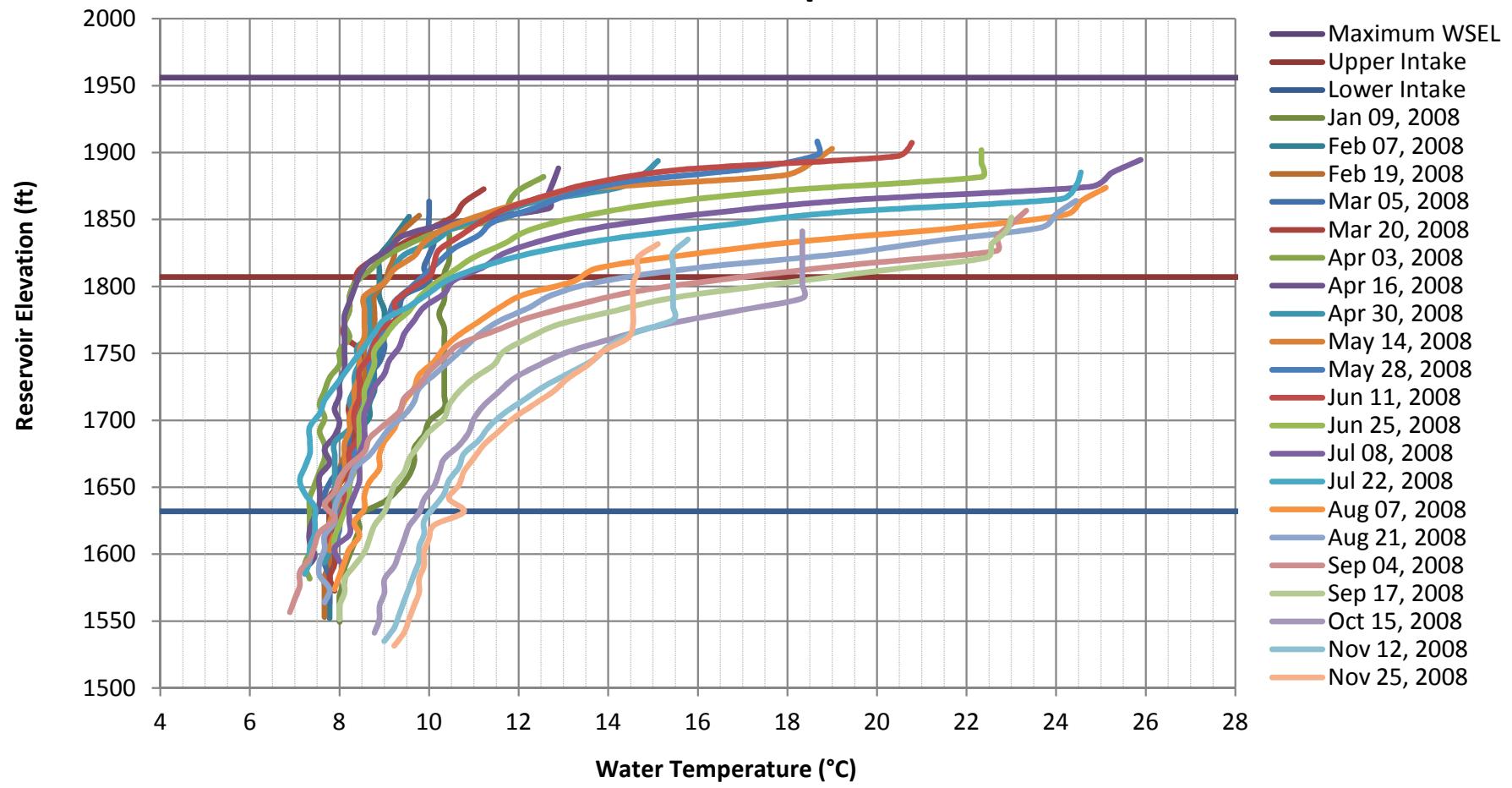
## New Bullards Bar Water Temperature Profiles - 2006



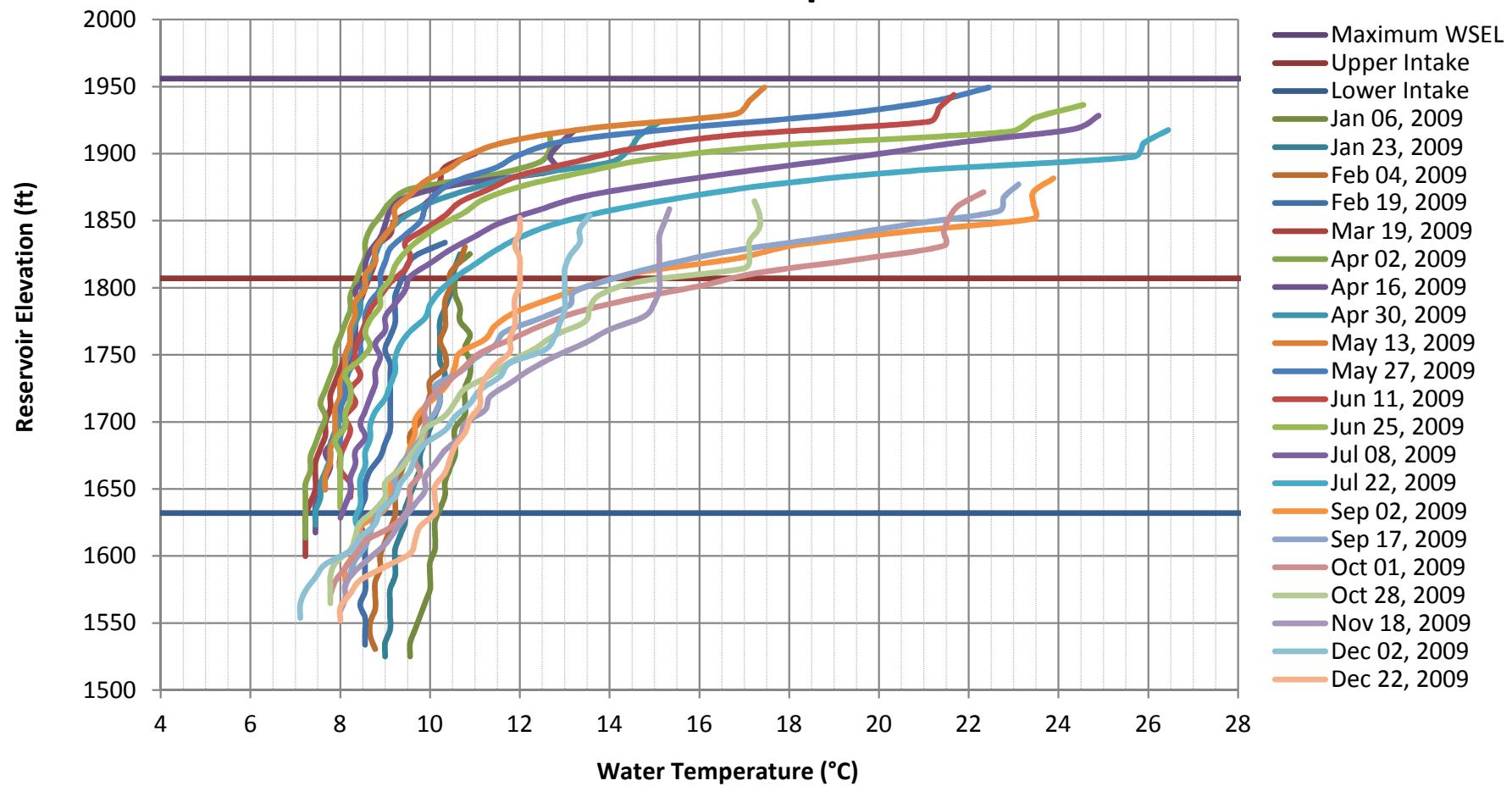
## New Bullards Bar Water Temperature Profiles - 2007



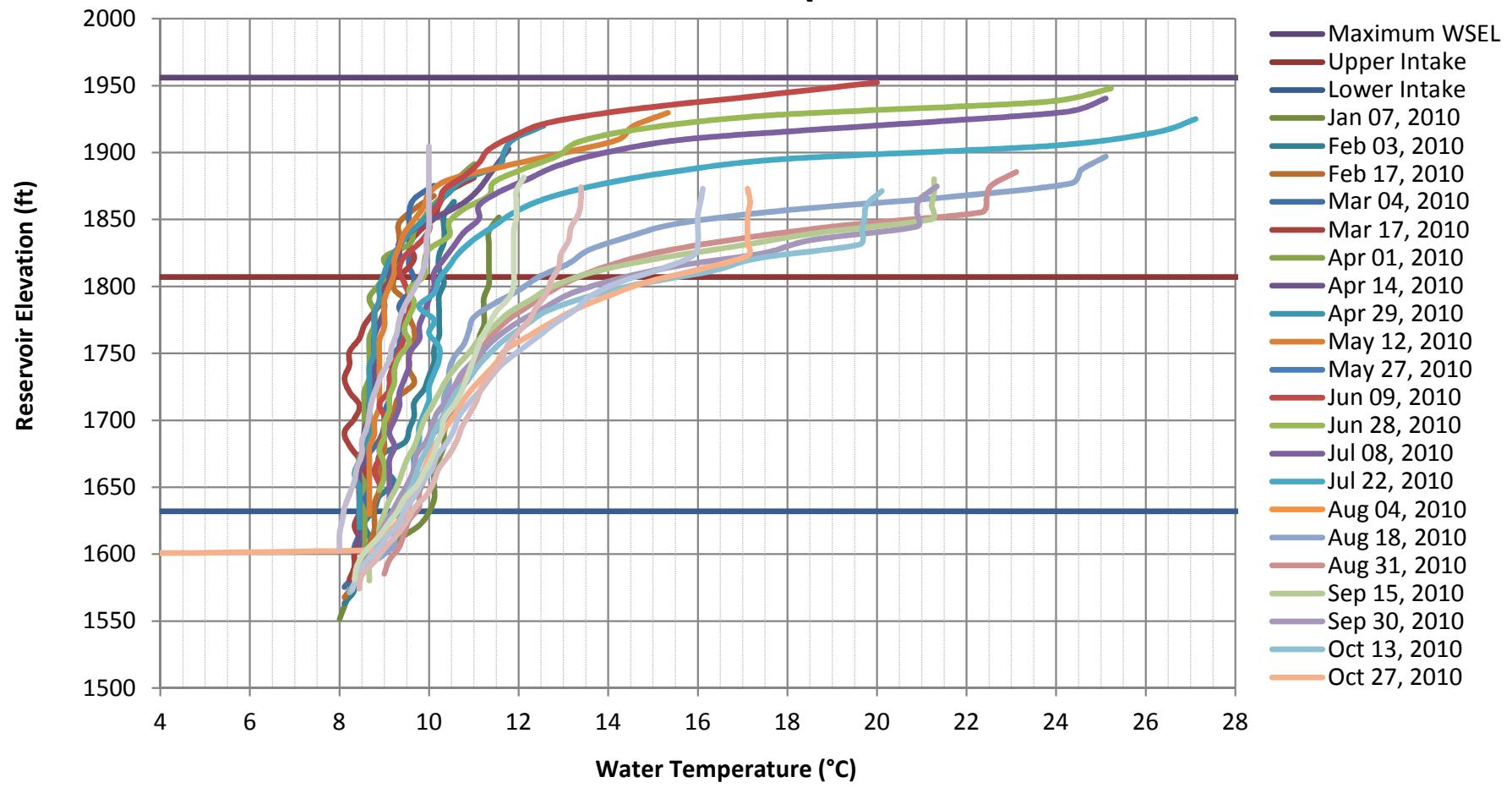
## New Bullards Bar Water Temperature Profiles - 2008



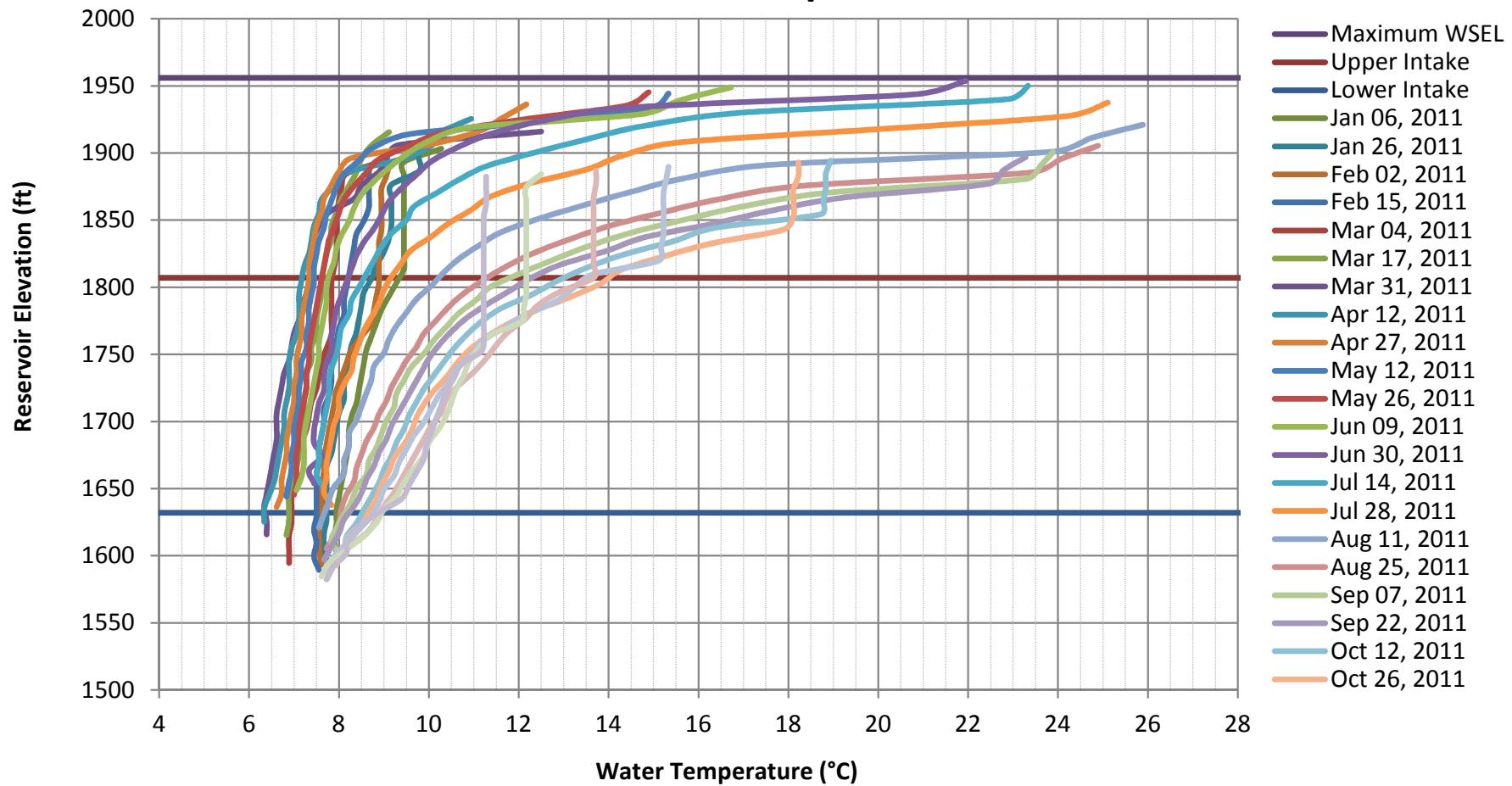
## New Bullards Bar Water Temperature Profiles - 2009



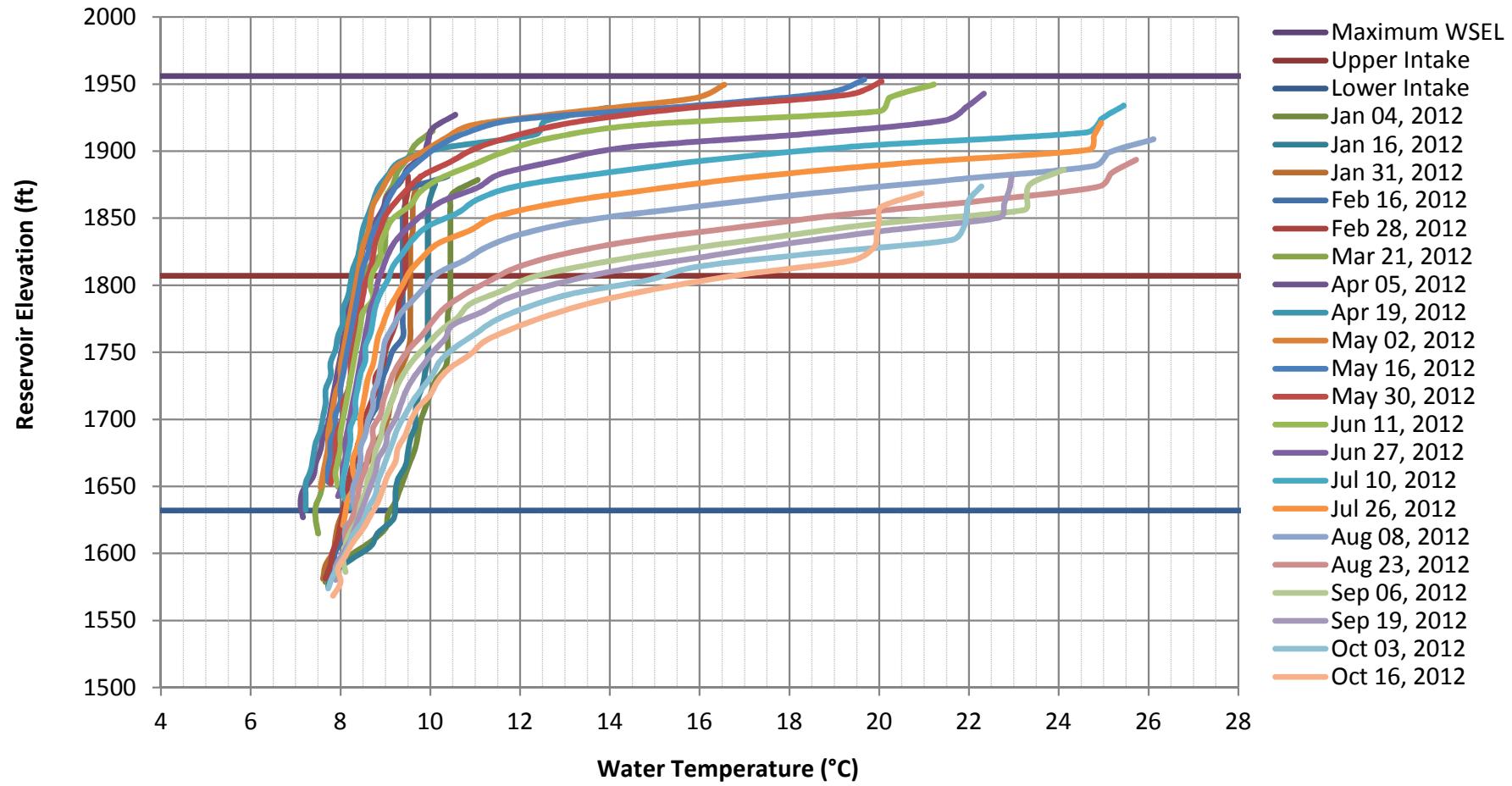
## New Bullards Bar Water Temperature Profiles - 2010

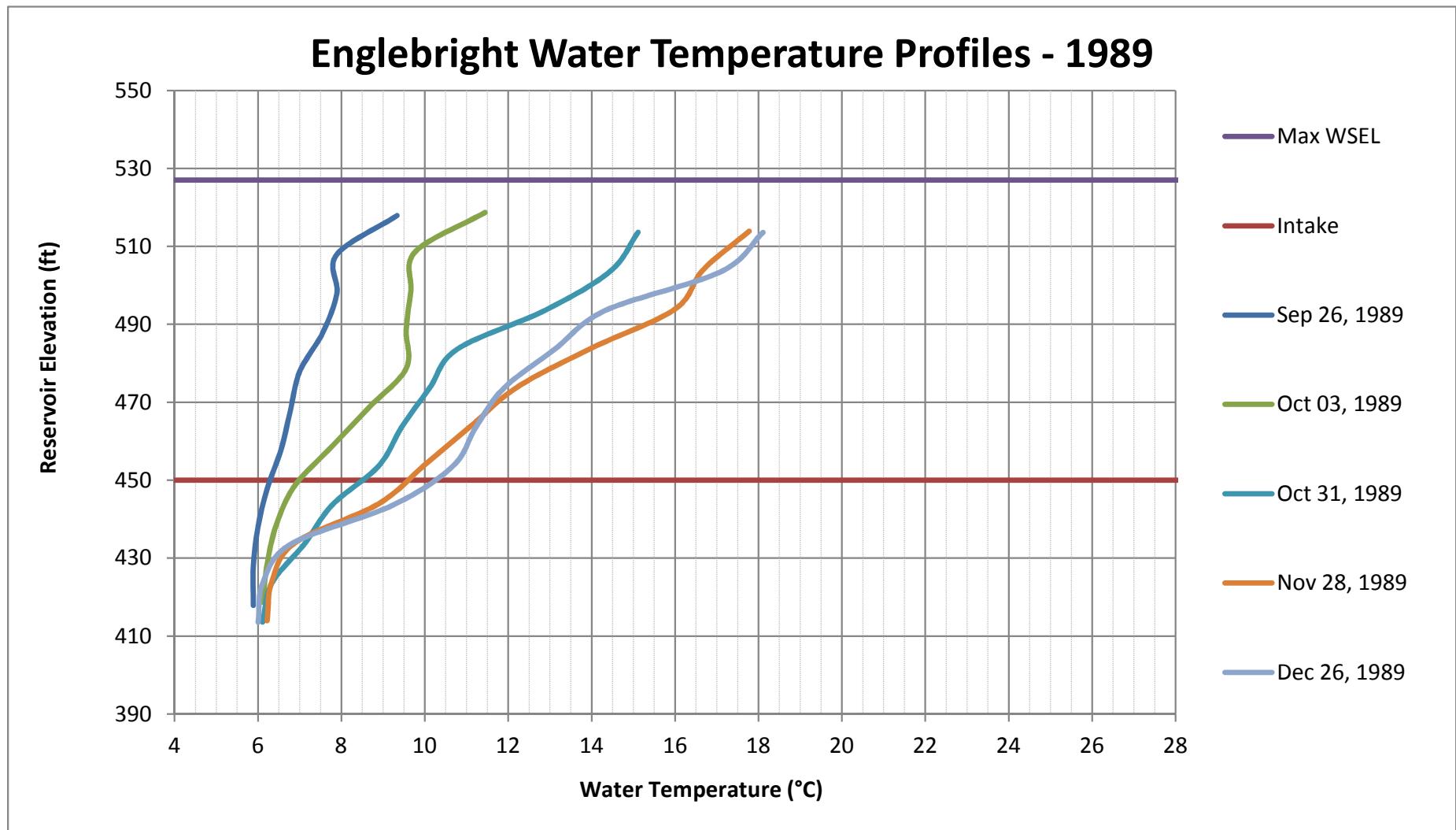


## New Bullards Bar Water Temperature Profiles - 2011

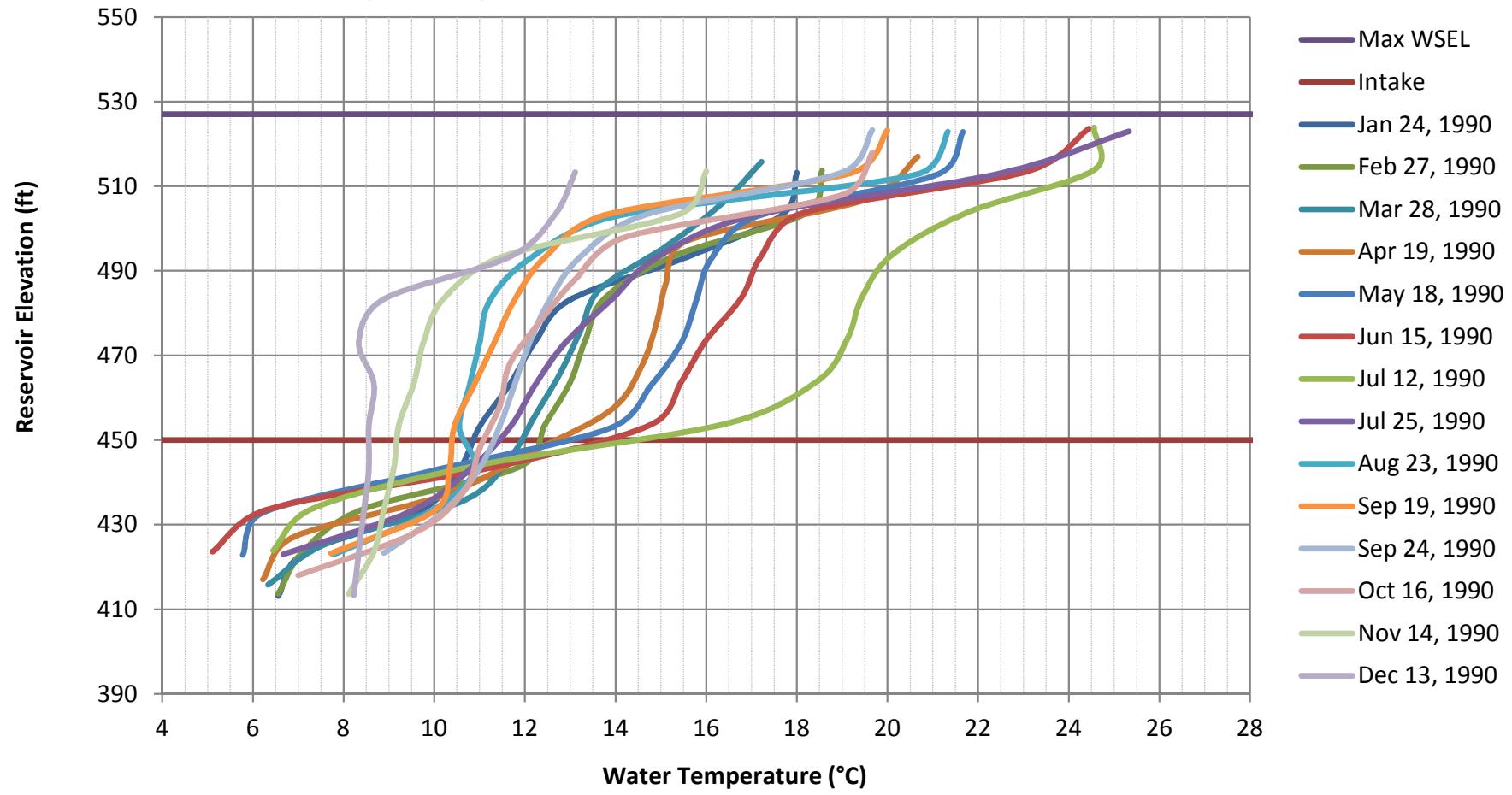


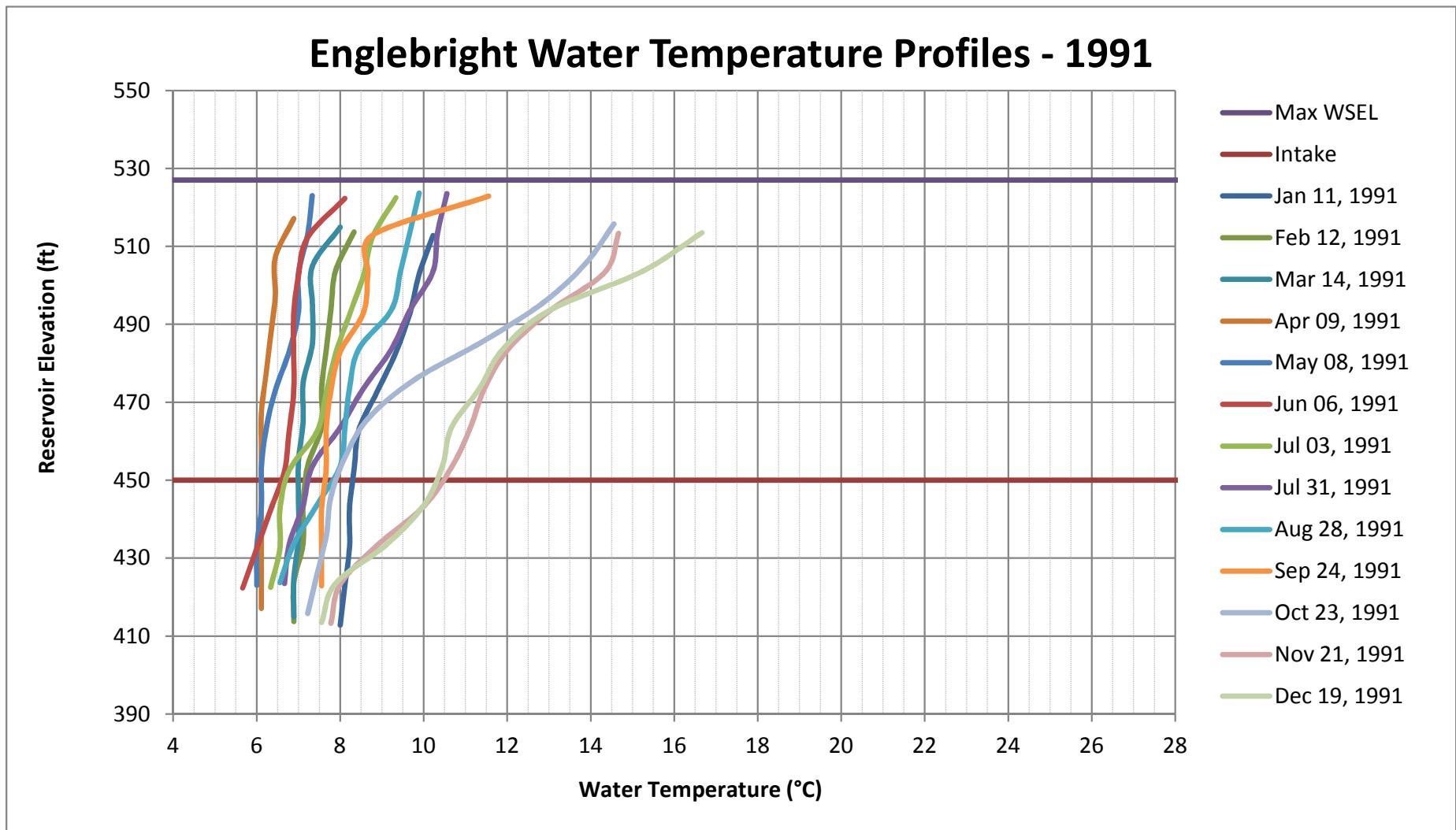
## New Bullards Bar Water Temperature Profiles - 2012



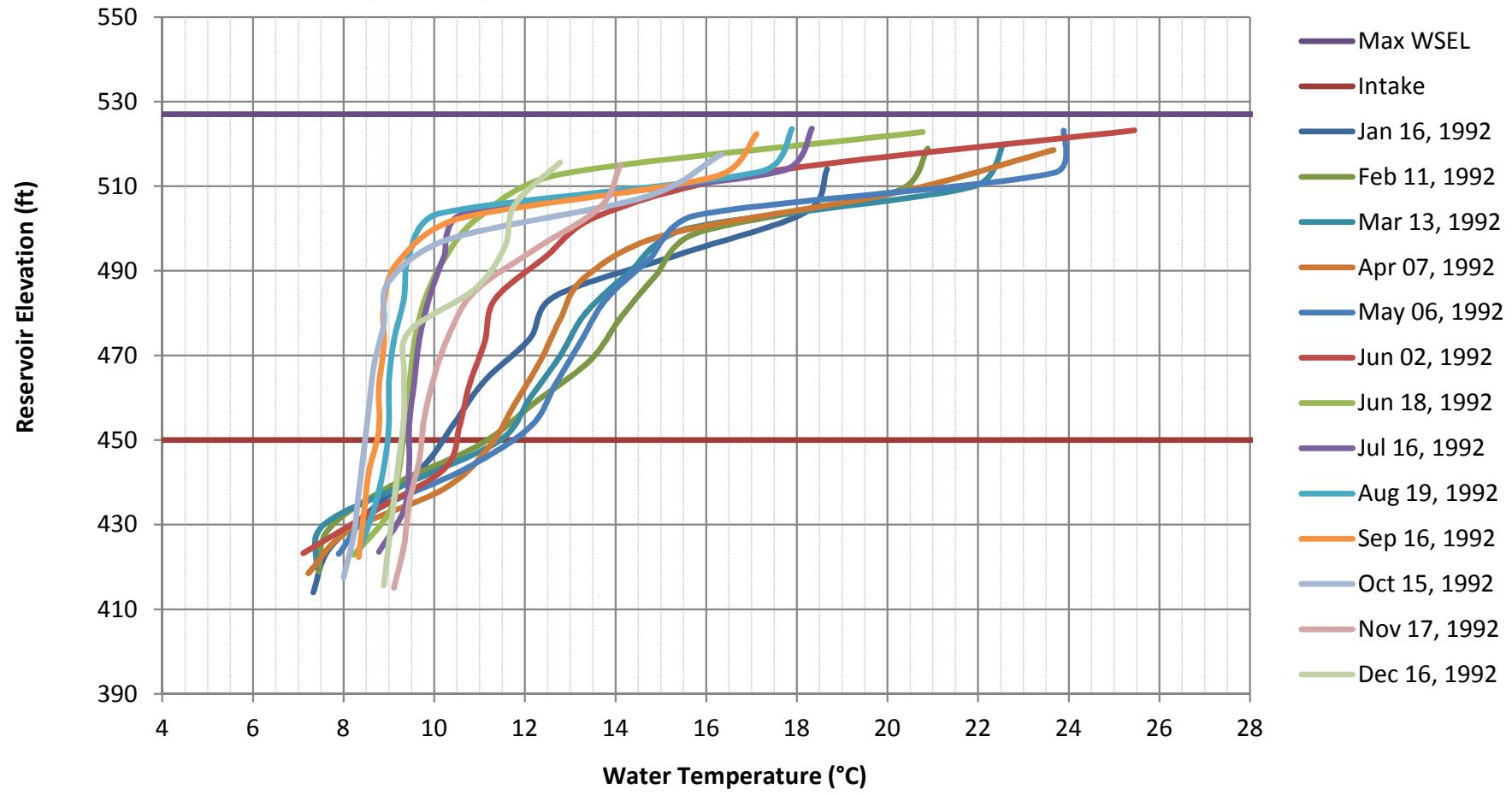


## Englebright Water Temperature Profiles - 1990

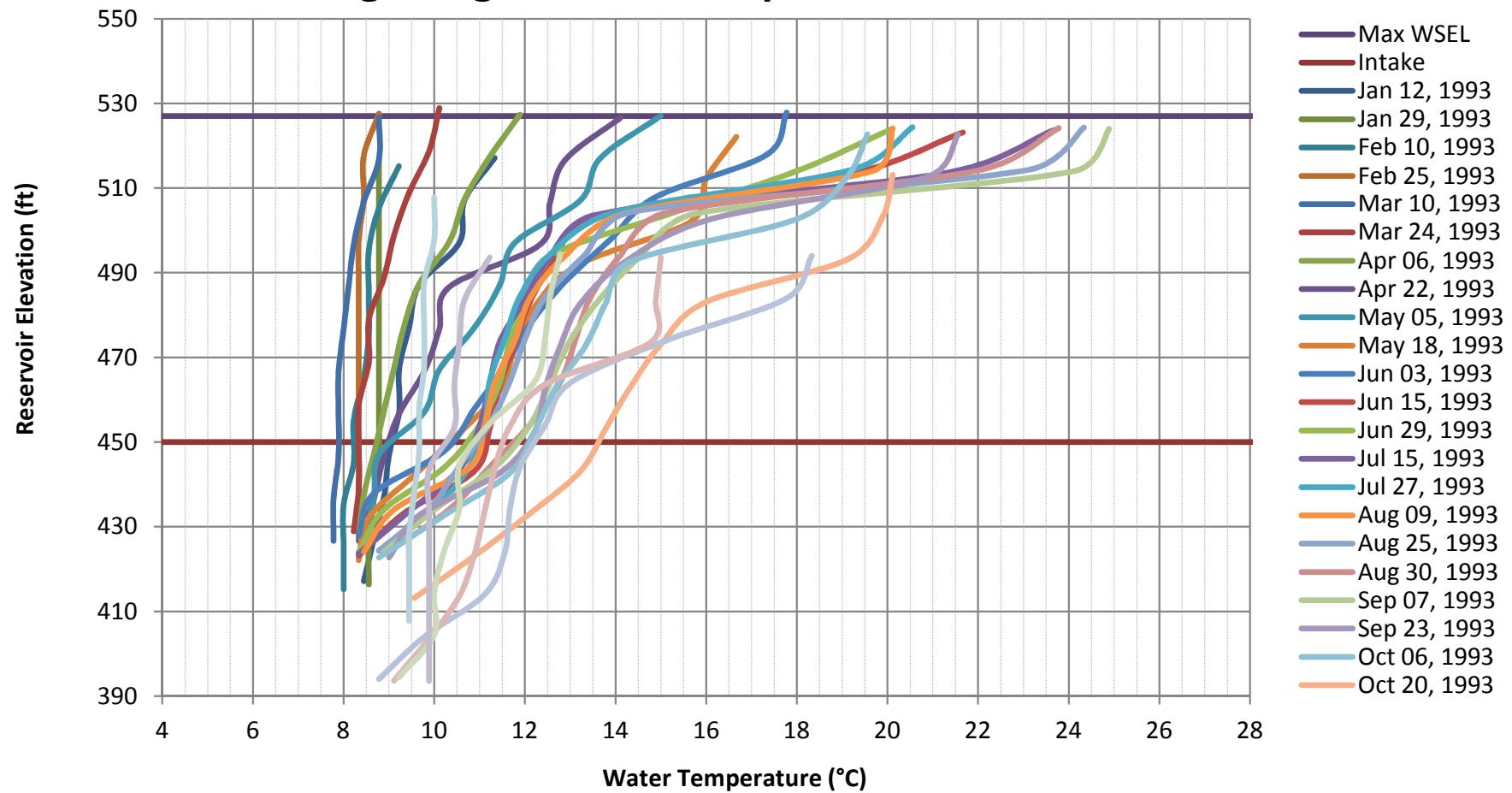




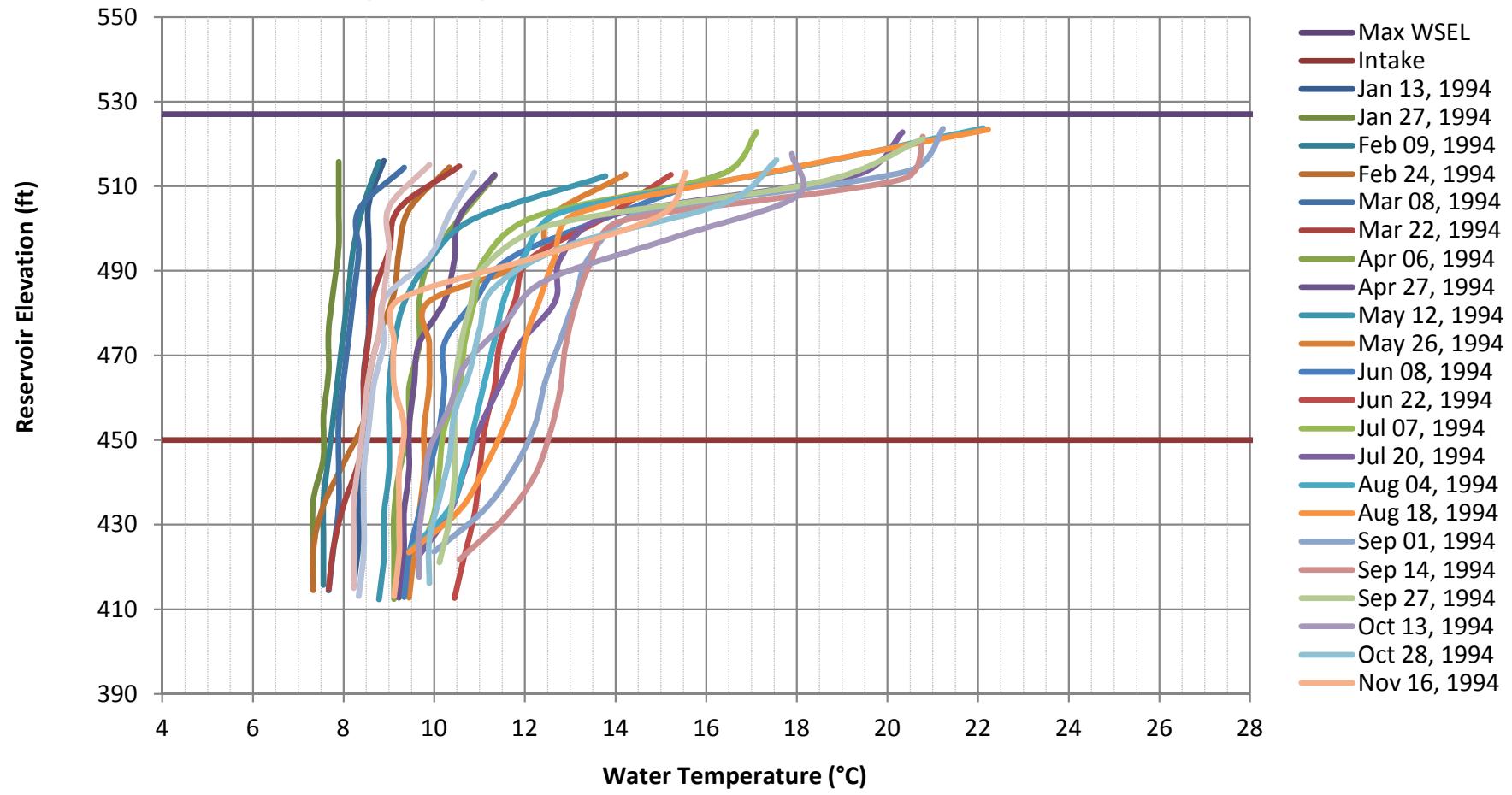
## Englebright Water Temperature Profiles - 1992



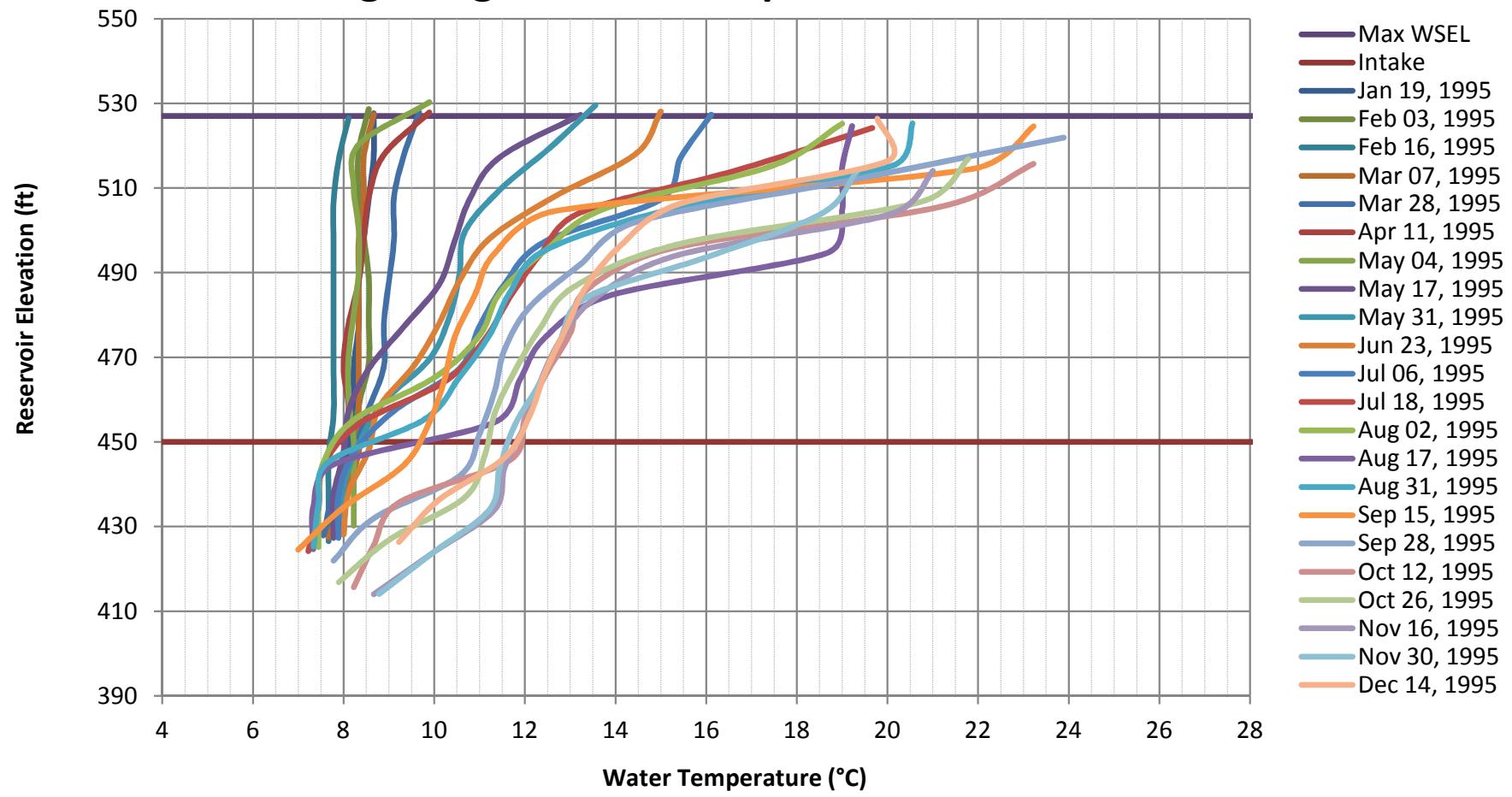
## Englebright Water Temperature Profiles - 1993



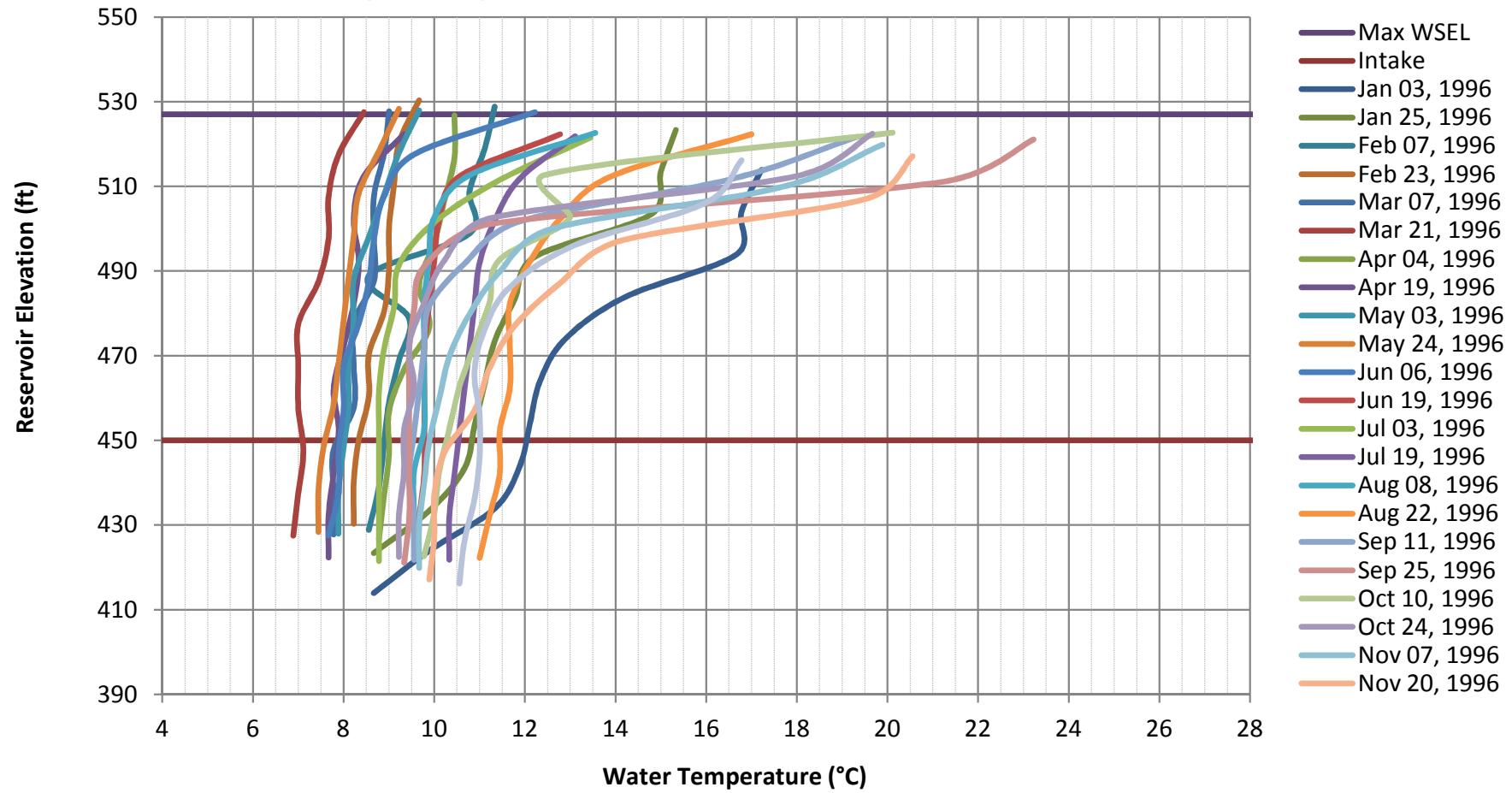
## Englebright Water Temperature Profiles - 1994



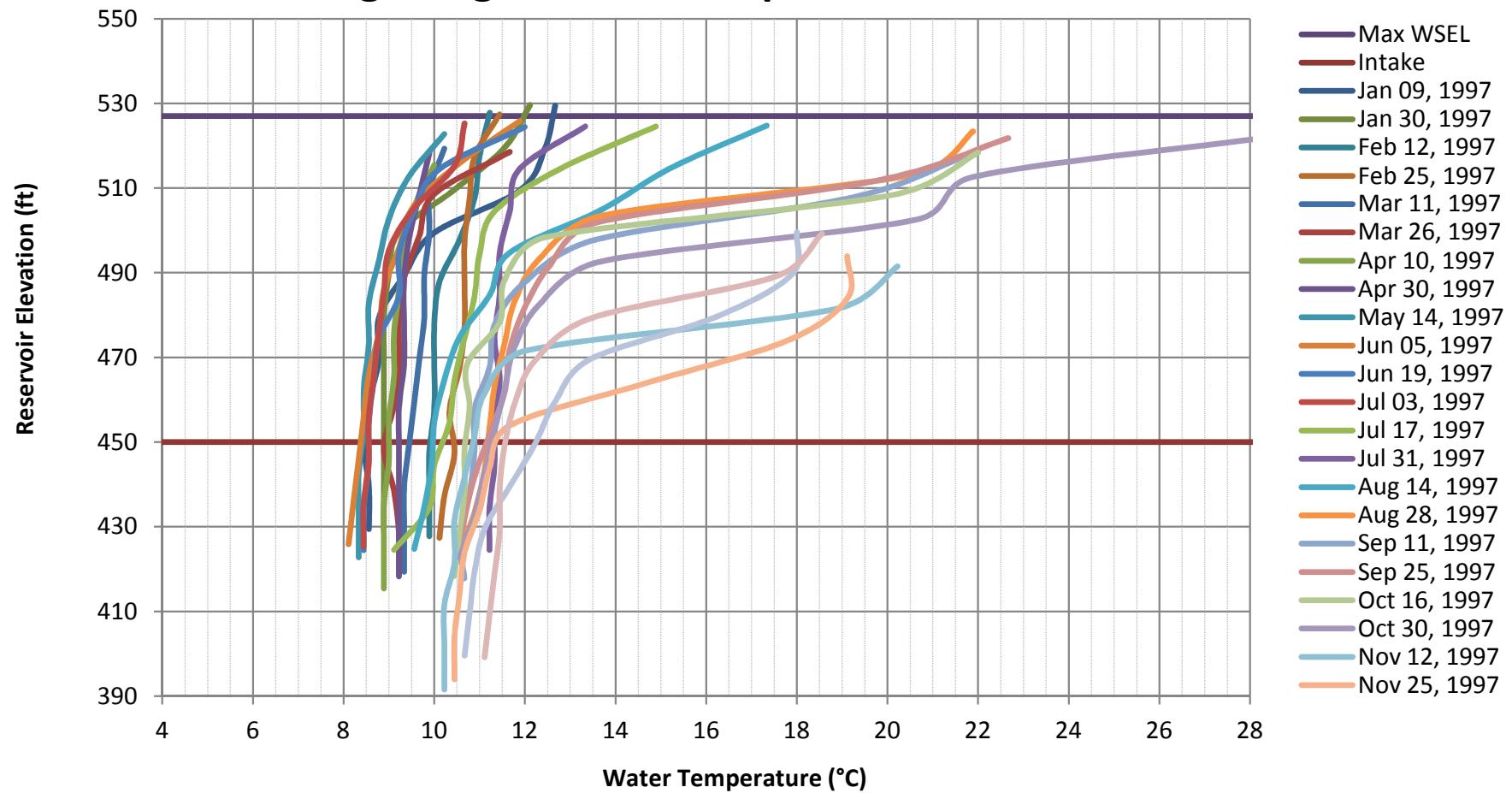
## Englebright Water Temperature Profiles - 1995



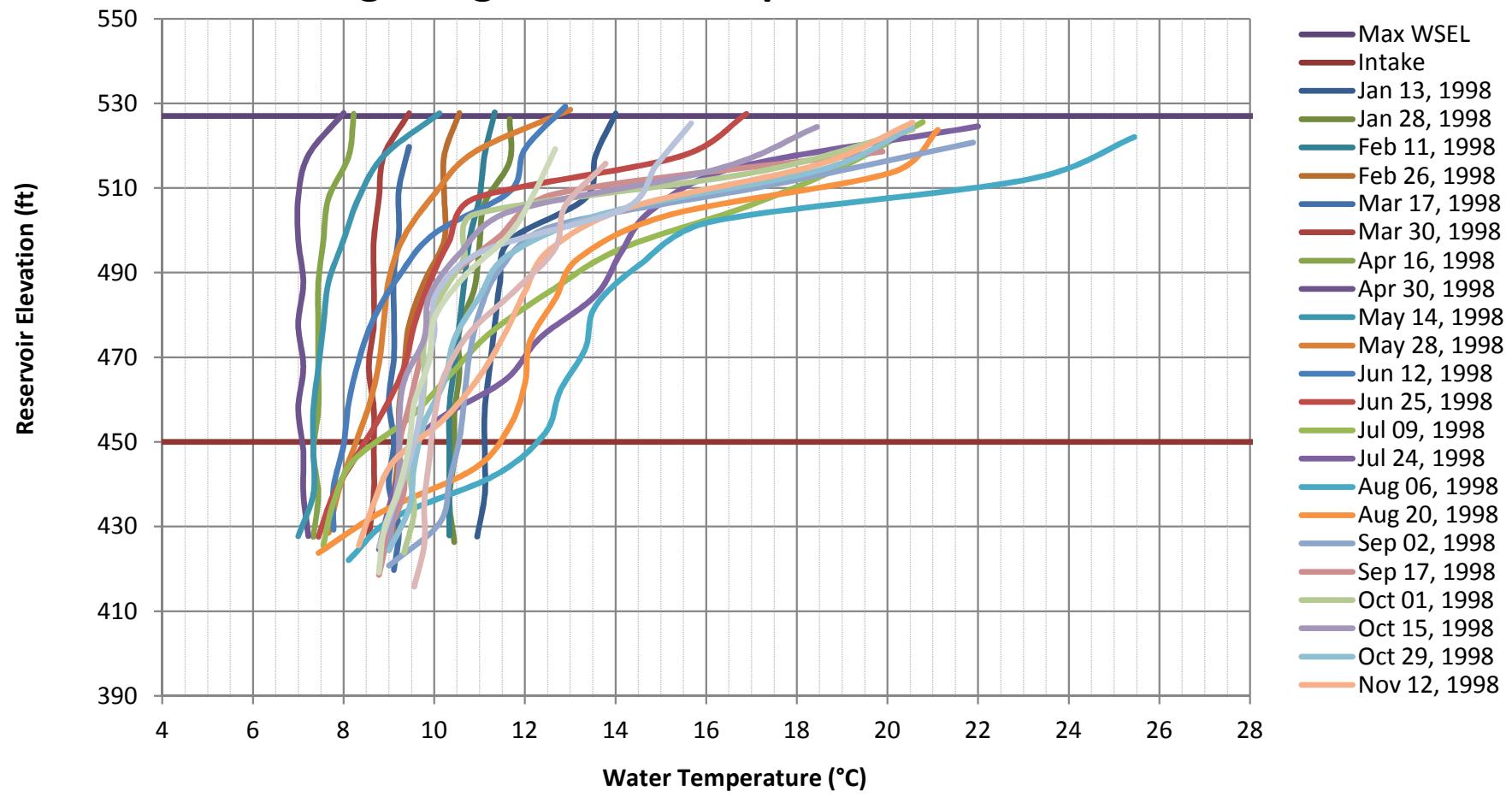
## Englebright Water Temperature Profiles - 1996



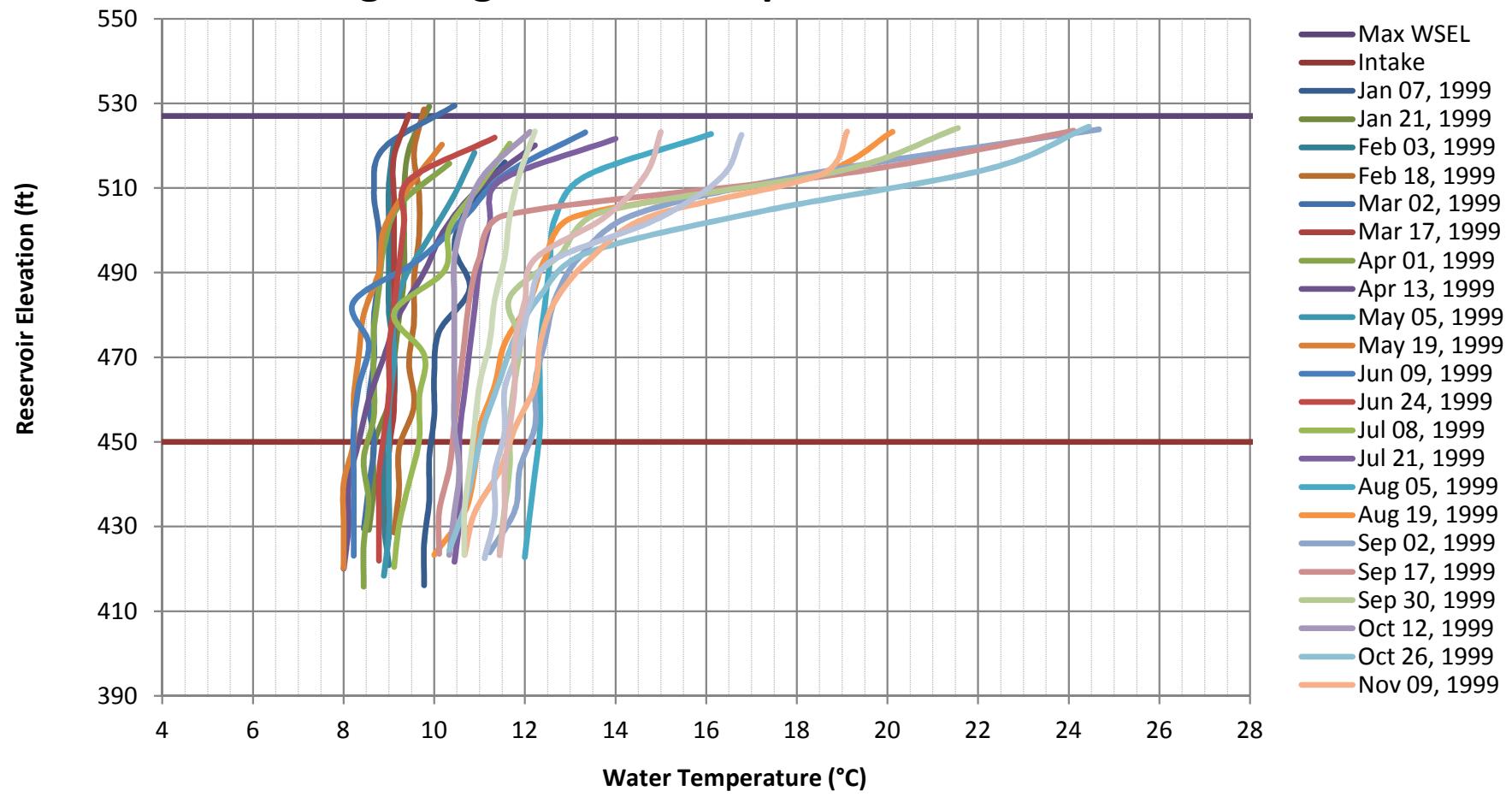
## Englebright Water Temperature Profiles - 1997



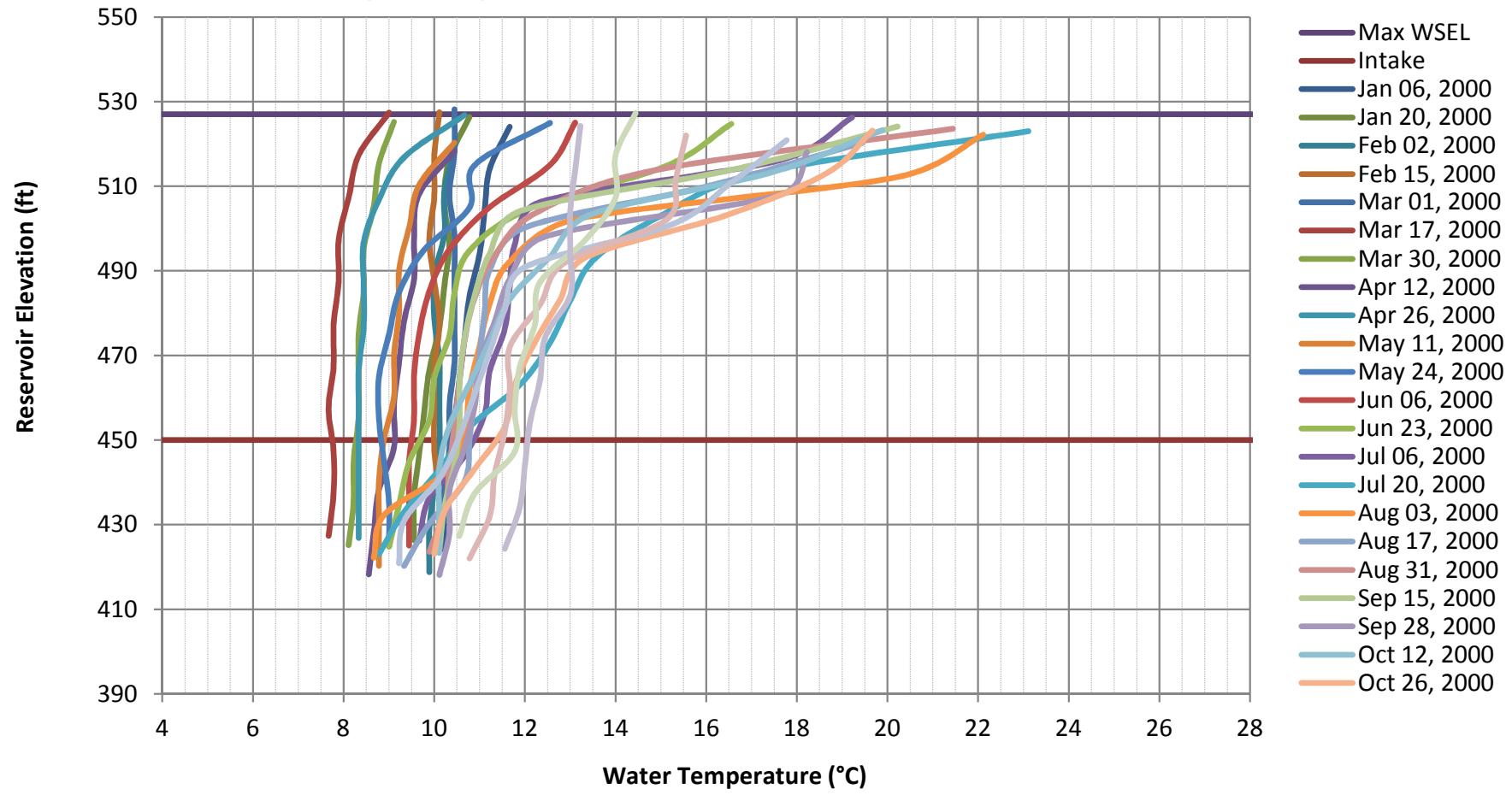
## Englebright Water Temperature Profiles - 1998



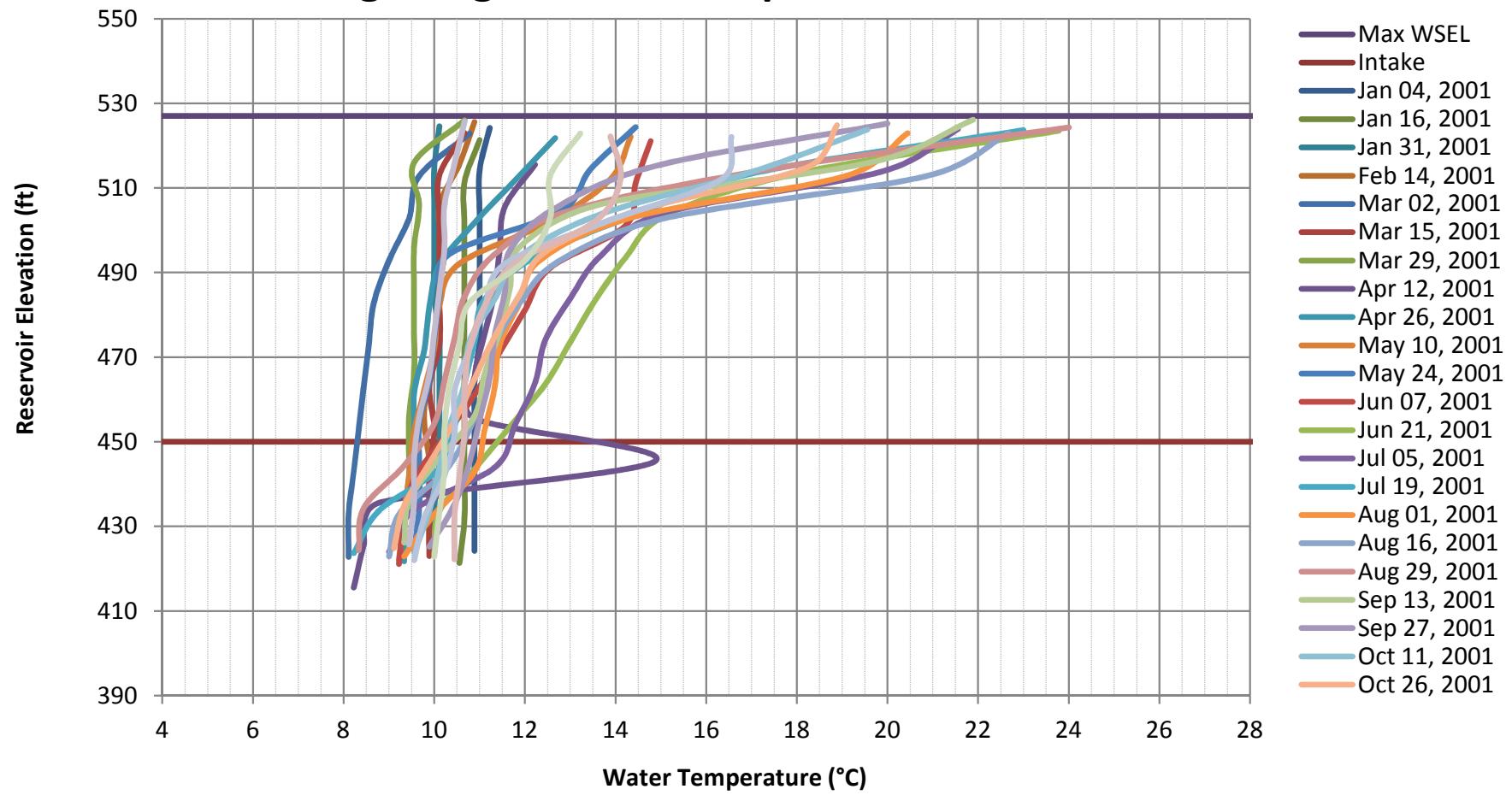
## Englebright Water Temperature Profiles - 1999



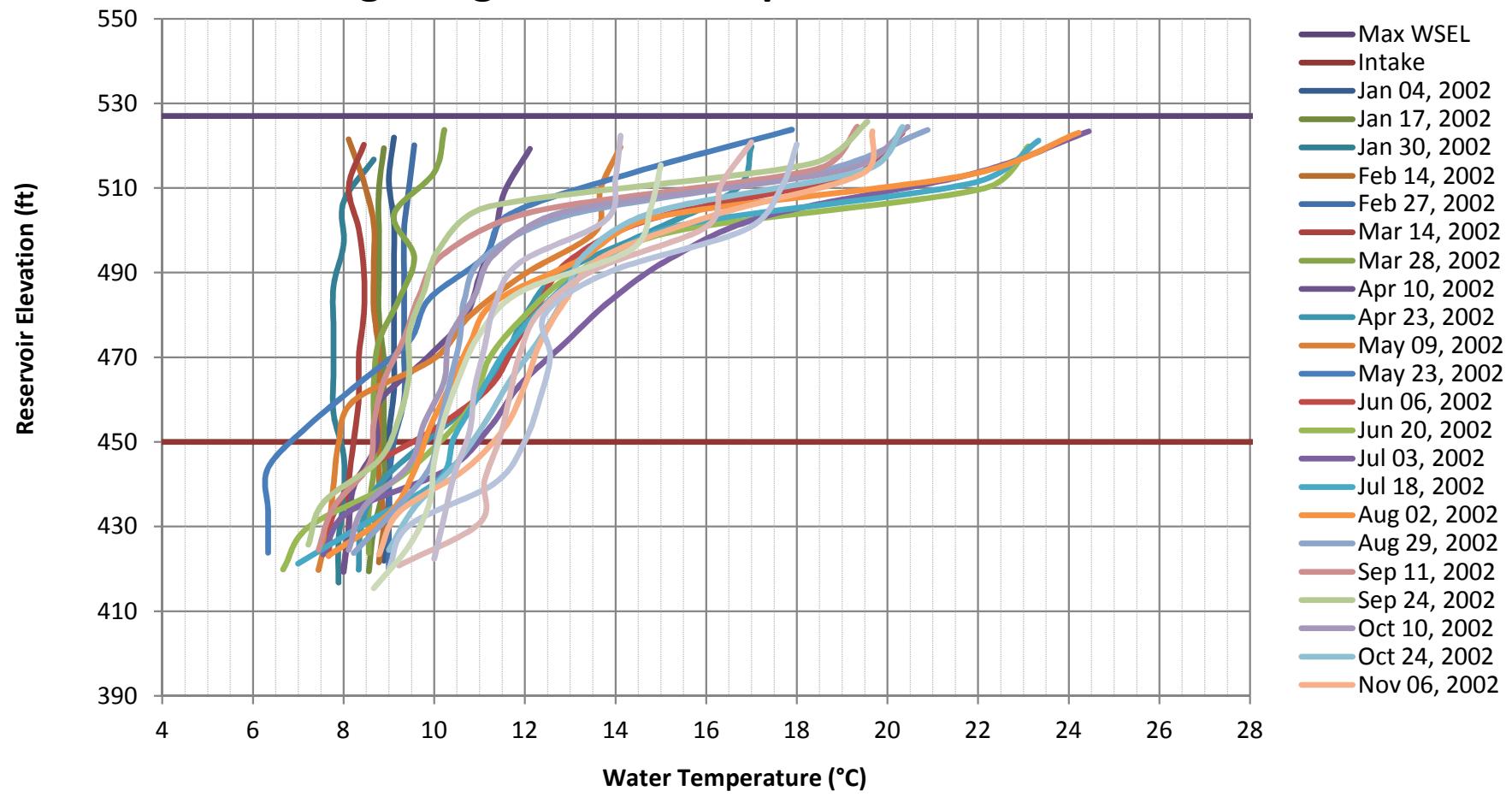
## Englebright Water Temperature Profiles - 2000



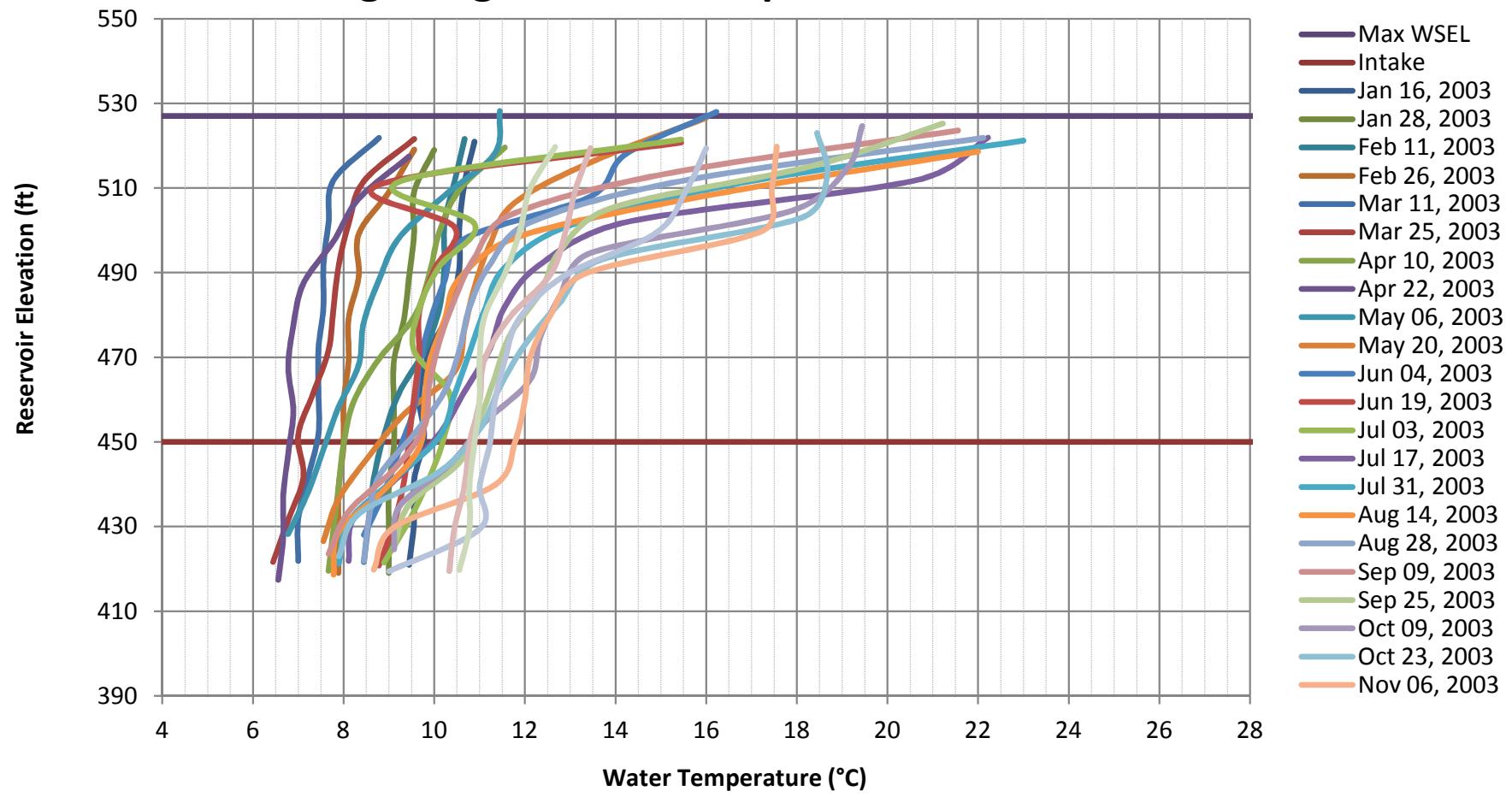
## Englebright Water Temperature Profiles - 2001



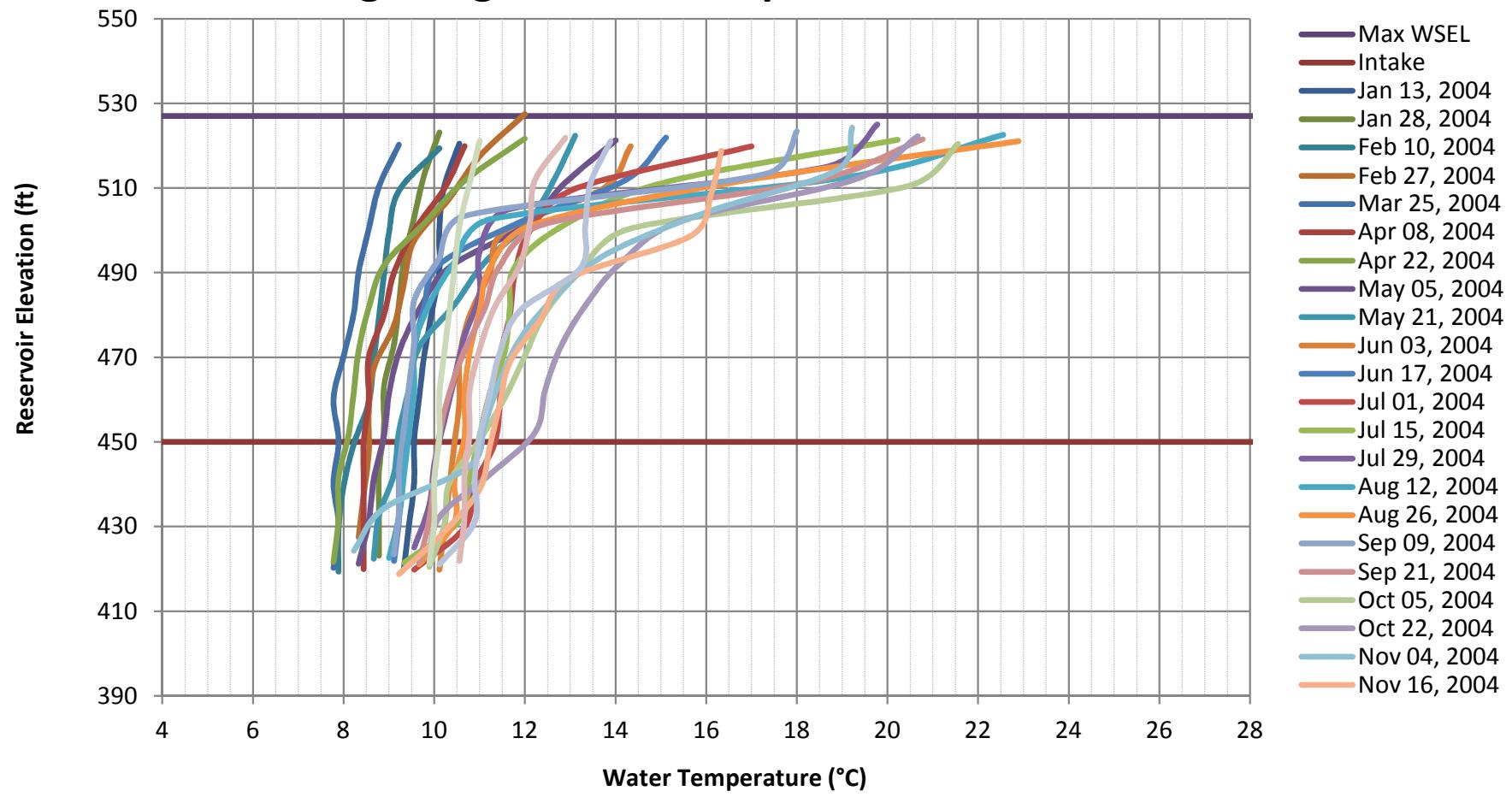
## Englebright Water Temperature Profiles - 2002



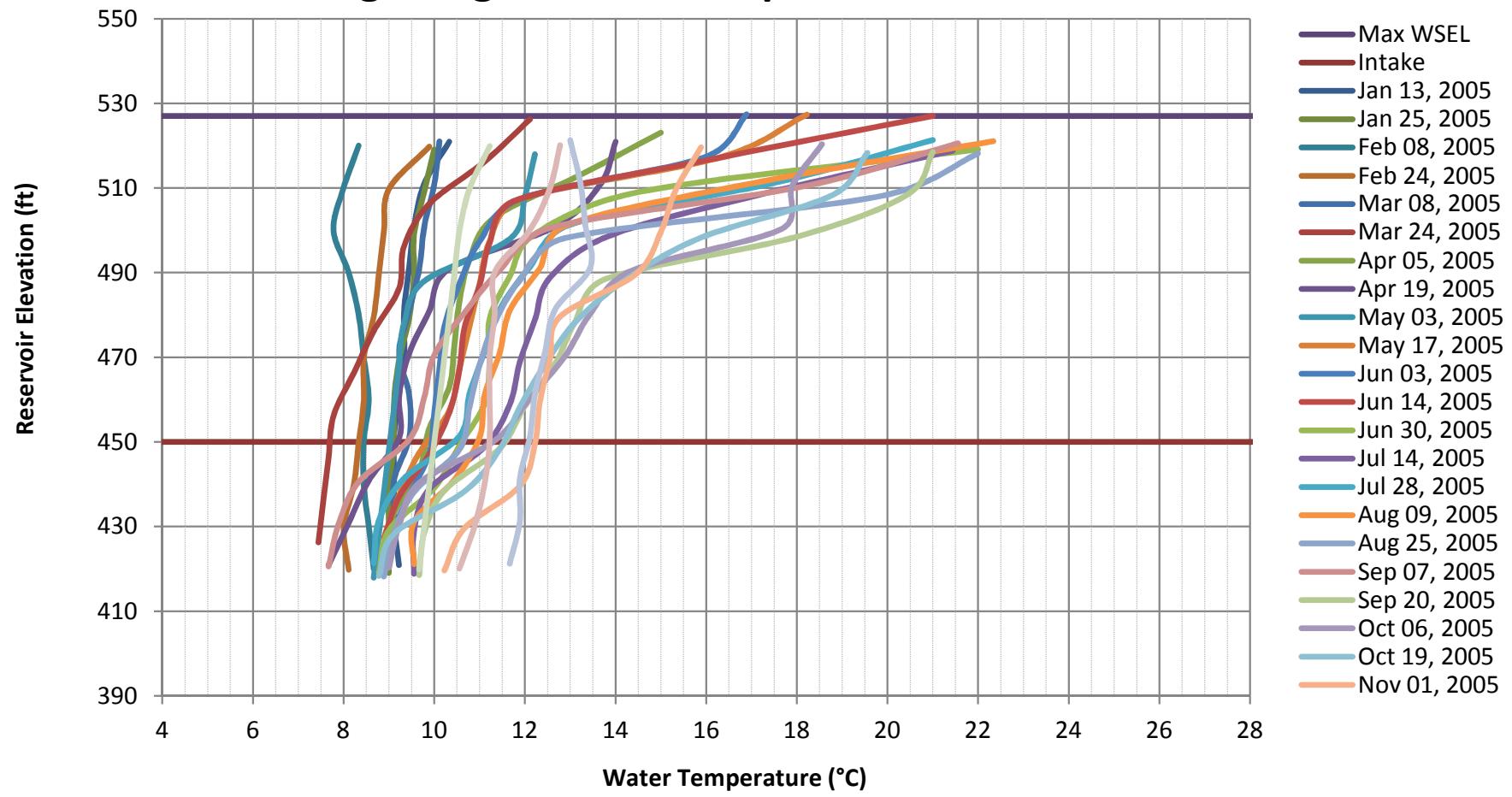
## Englebright Water Temperature Profiles - 2003



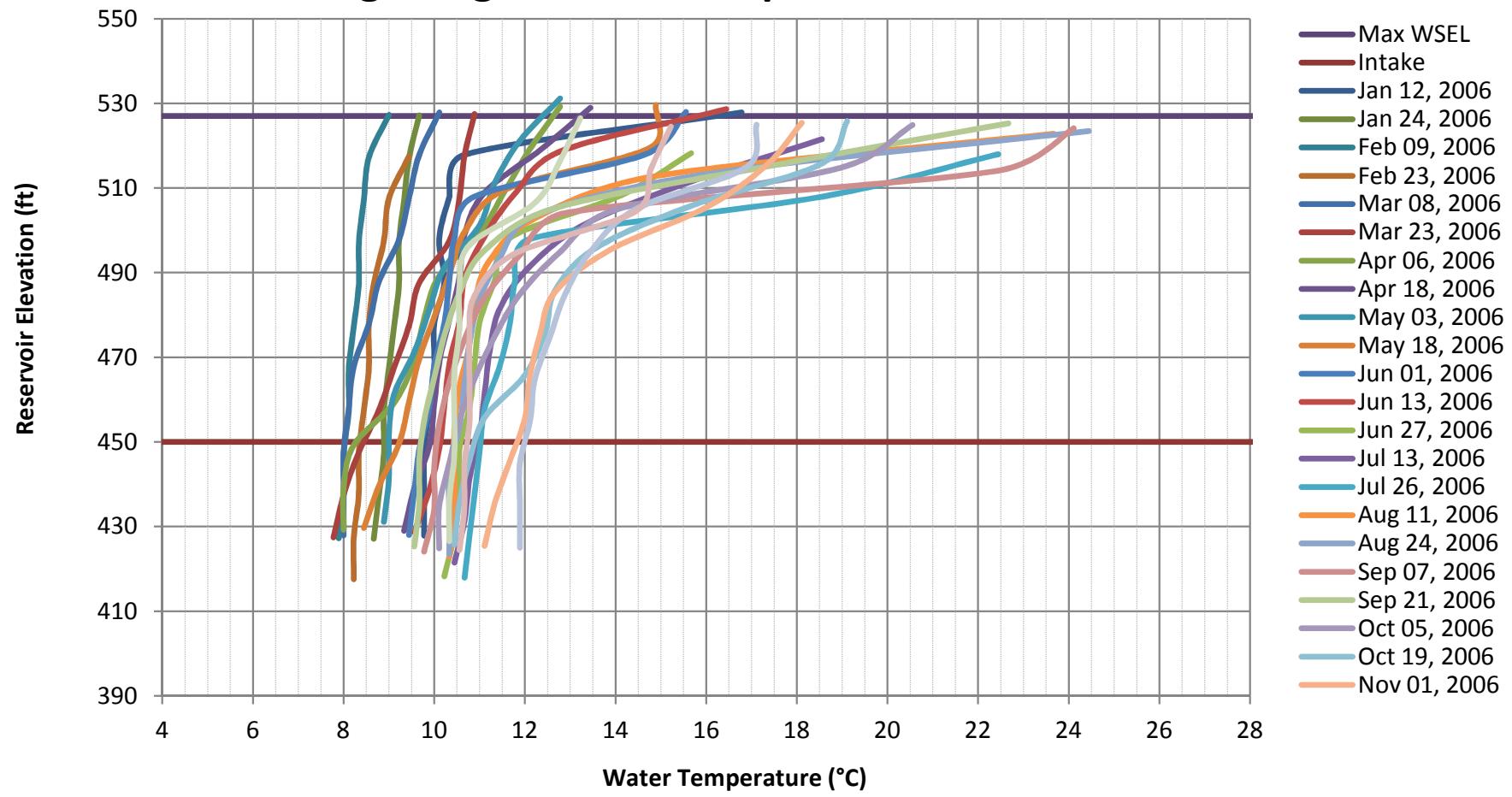
## Englebright Water Temperature Profiles - 2004



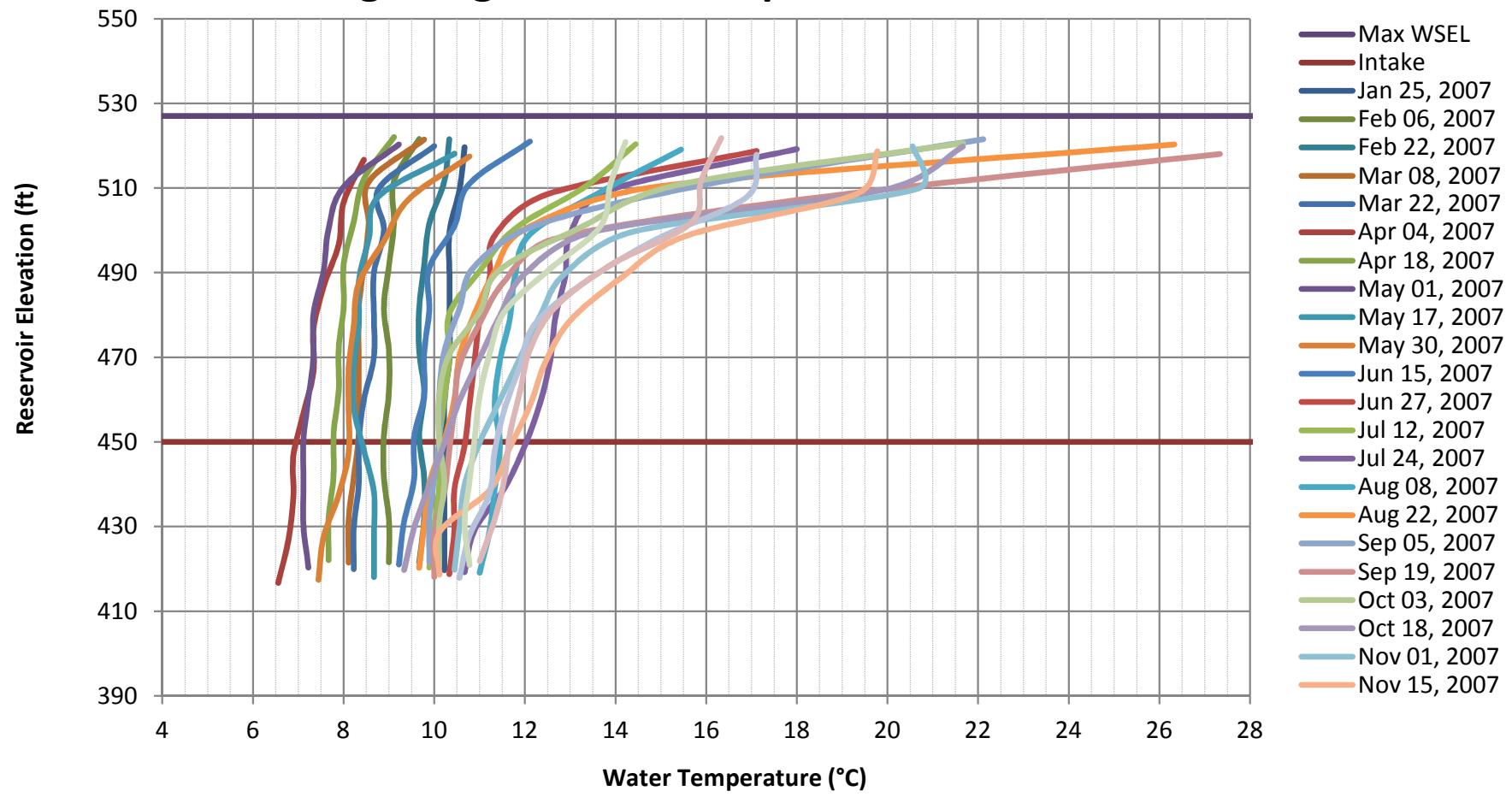
## Englebright Water Temperature Profiles - 2005



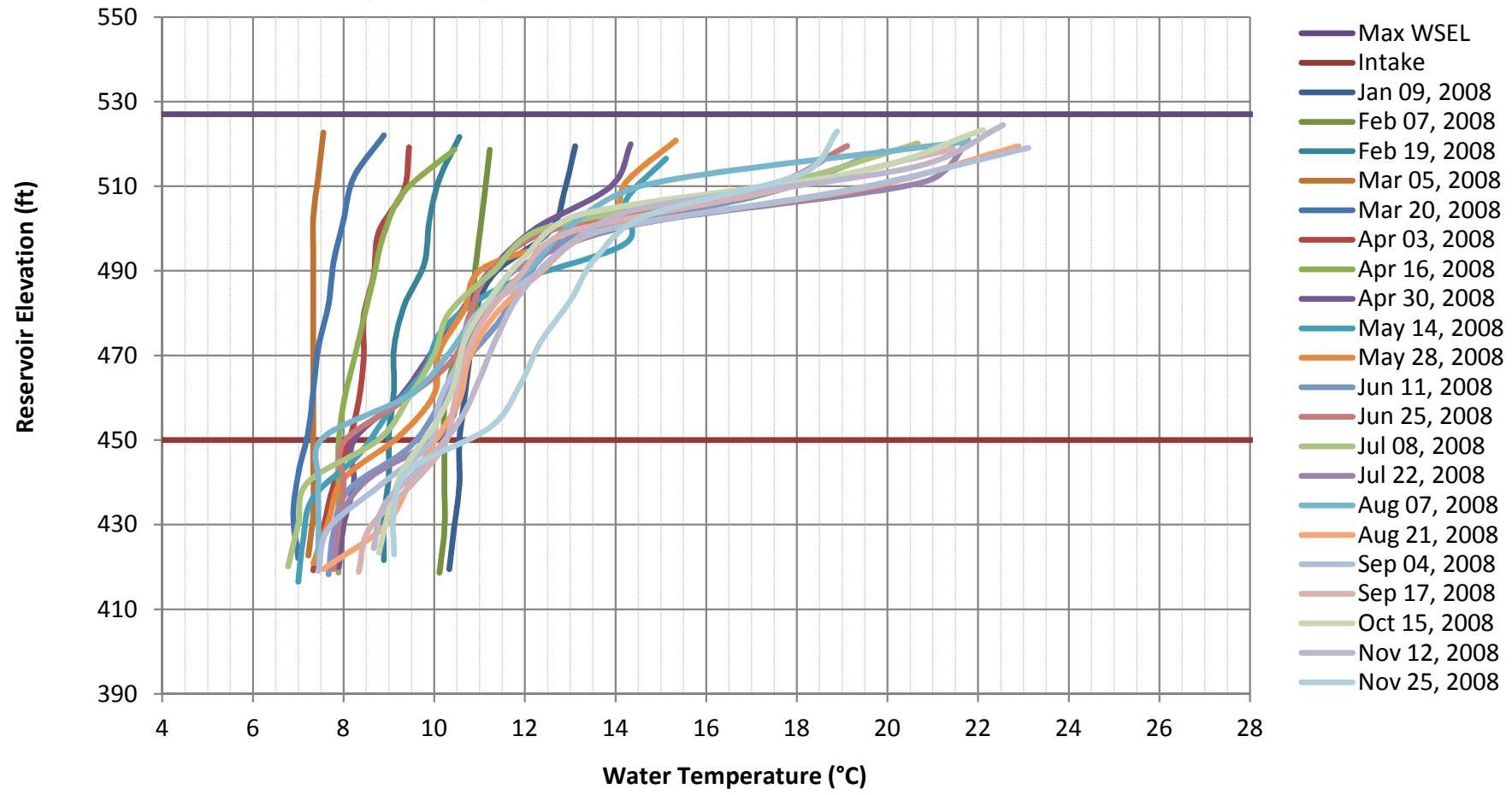
## Englebright Water Temperature Profiles - 2006



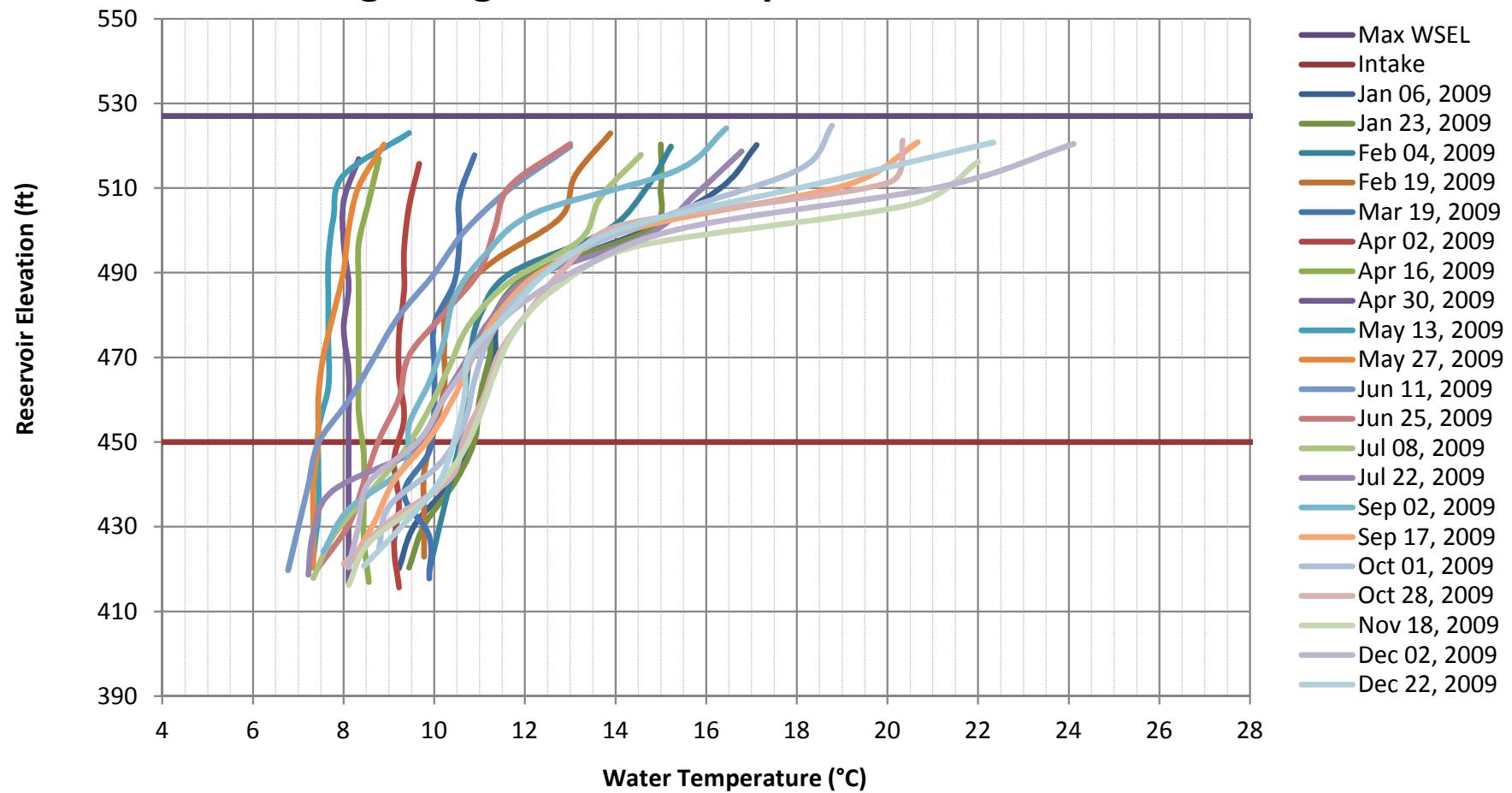
## Englebright Water Temperature Profiles - 2007



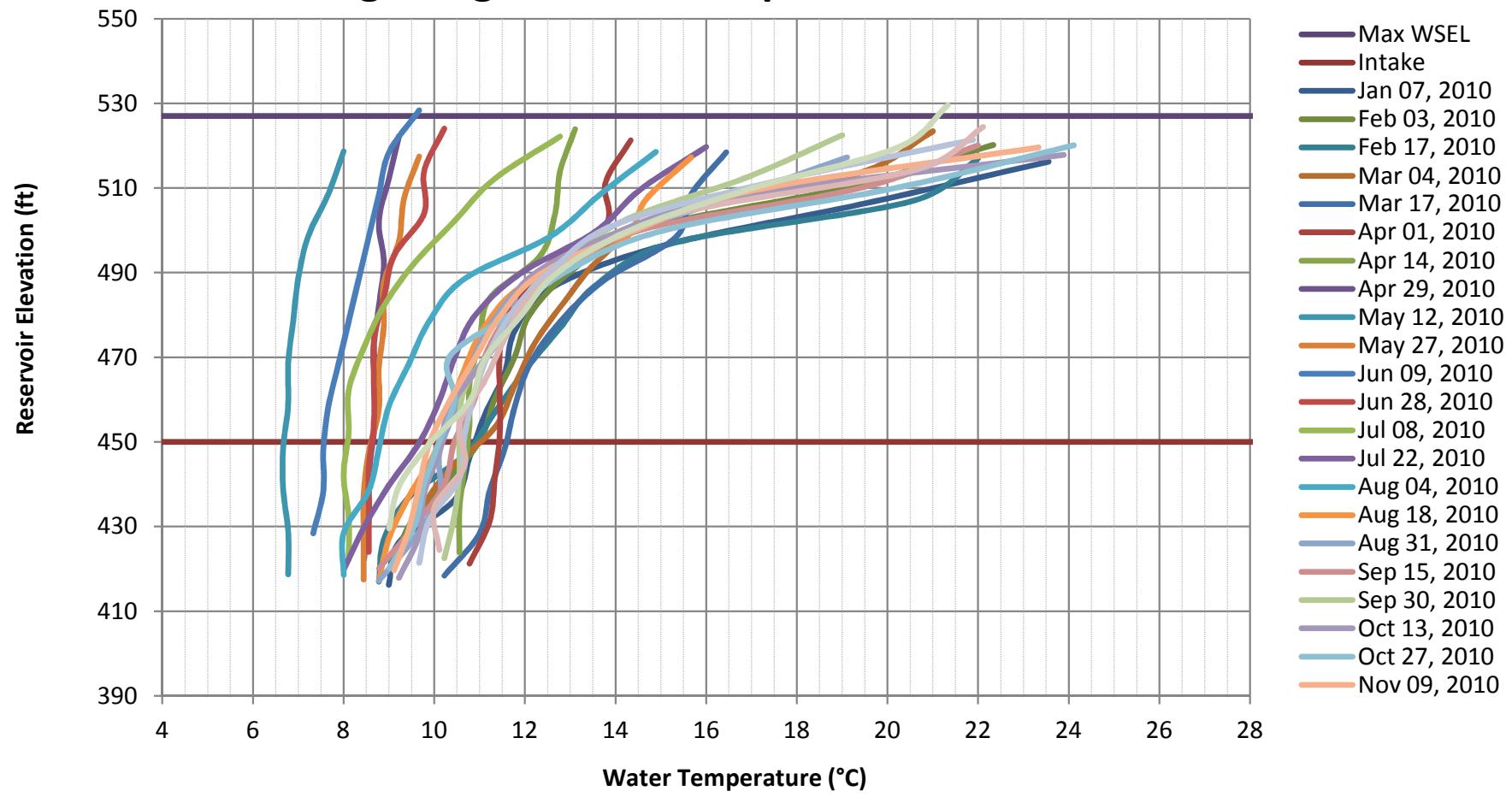
## Englebright Water Temperature Profiles - 2008

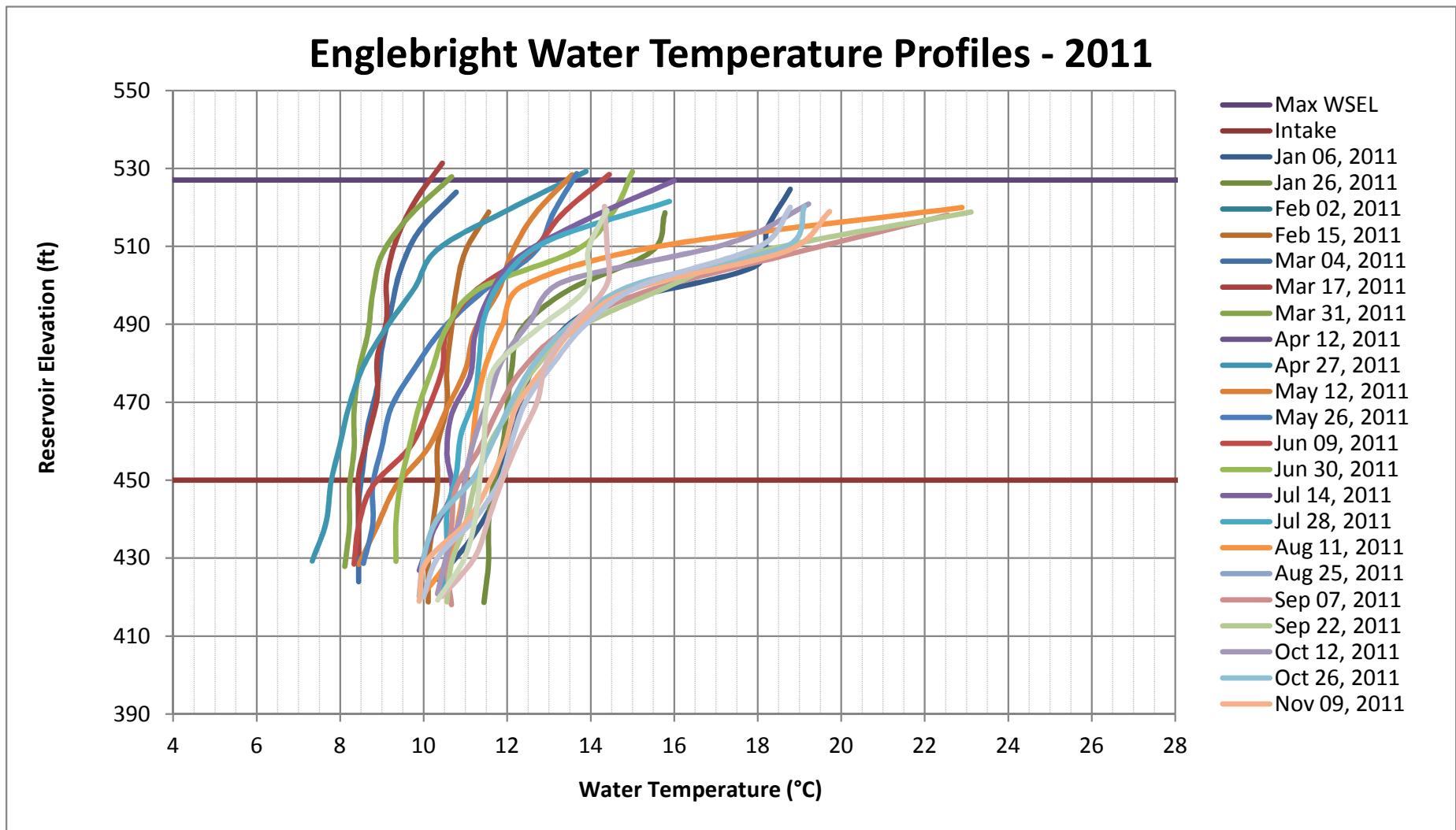


## Englebright Water Temperature Profiles - 2009

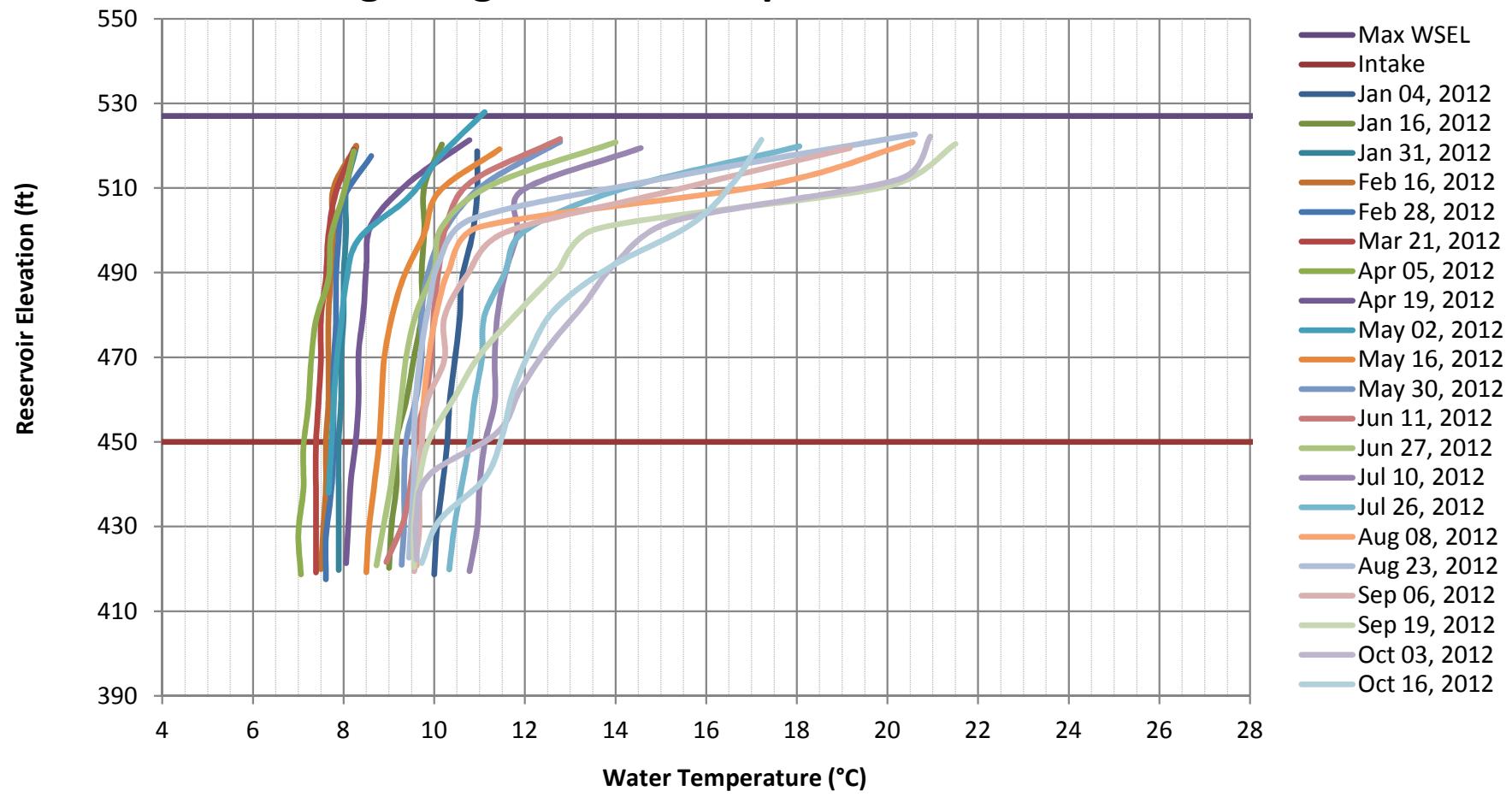


## Englebright Water Temperature Profiles - 2010

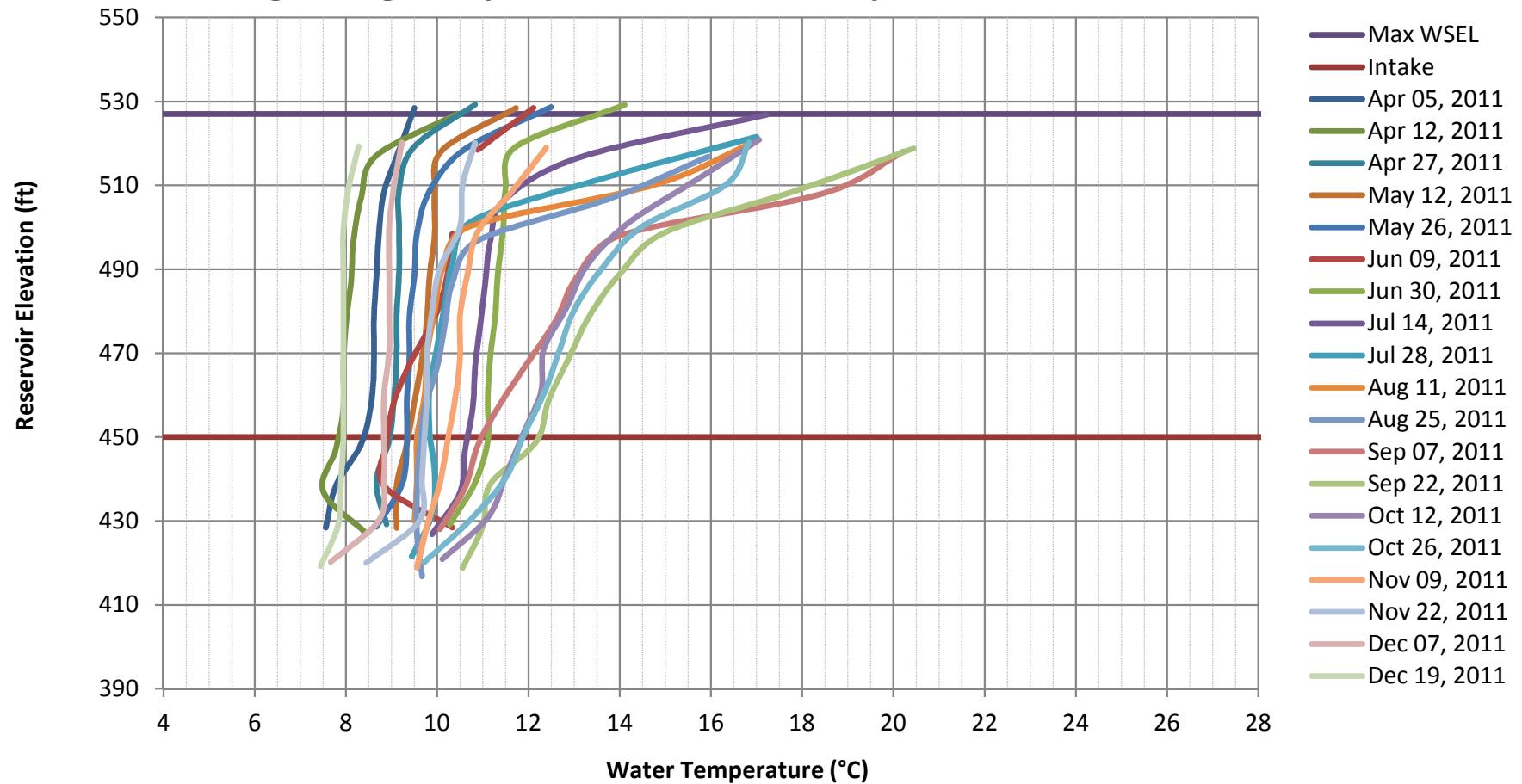




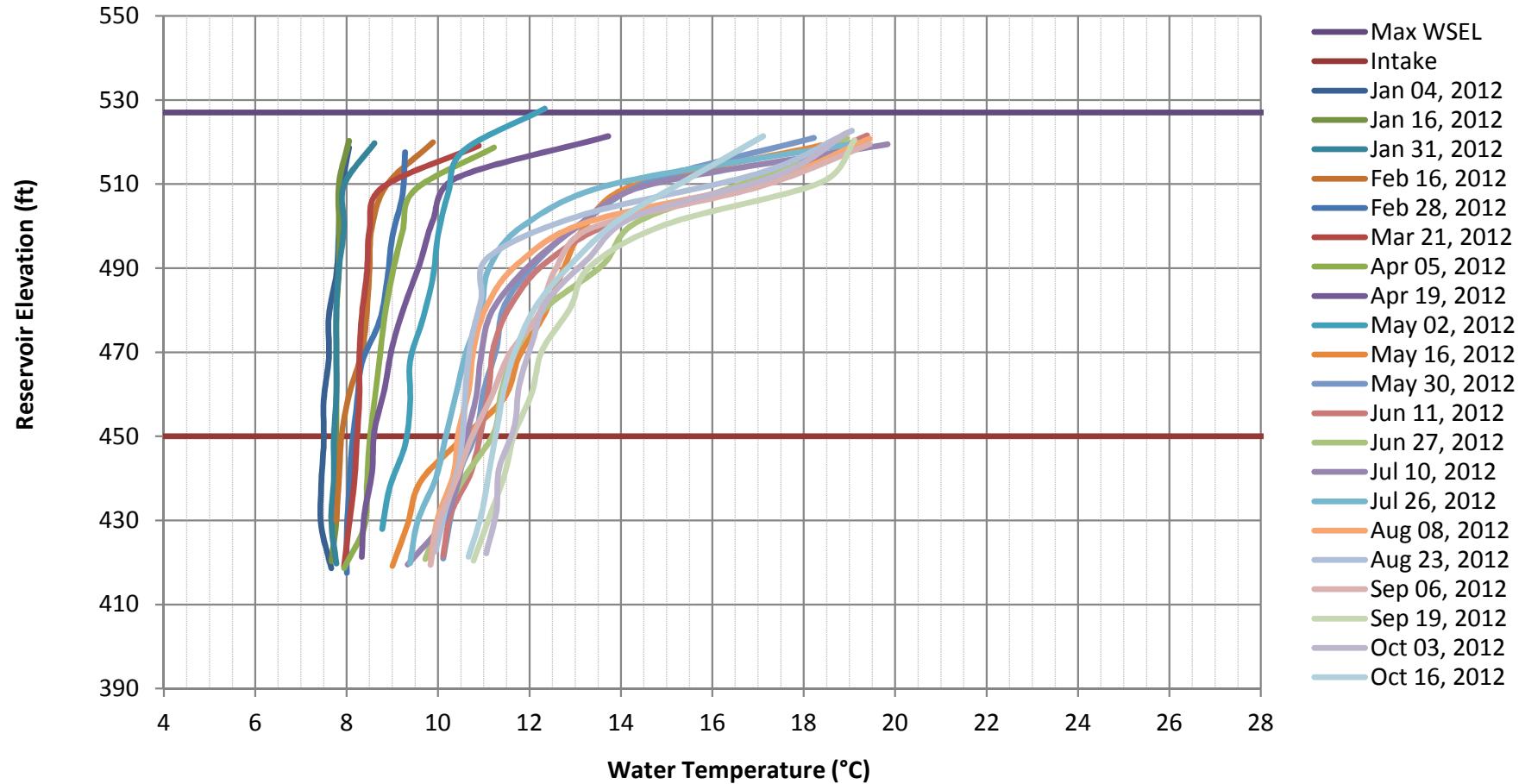
## Englebright Water Temperature Profiles - 2012



## Englebright Upstream Water Temperature Profiles - 2011



## Englebright Upstream Water Temperature Profiles - 2012



New Bullards Bar Reservoir - Dissolved Oxygen and Water Temperature Data by Date

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
11/9/2010	1872.9	16.1	8.7
	1862.9	16.1	8.8
	1852.9	16.0	8.8
	1842.9	16.0	8.7
	1832.9	16.0	8.6
	1822.9	15.9	8.3
	1812.9	15.2	8.2
	1802.9	14.2	8.6
	1792.9	13.6	8.8
	1782.9	13.3	8.9
	1772.9	12.8	9.0
	1762.9	12.4	9.1
	1752.9	12.1	9.2
	1742.9	11.7	9.2
	1732.9	11.4	9.2
	1722.9	11.2	9.3
	1712.9	10.9	9.3
	1702.9	10.7	9.2
	1692.9	10.6	9.2
	1682.9	10.4	9.2
	1672.9	10.2	9.1
	1662.9	10.1	9.1
	1652.9	9.8	9.1
	1642.9	9.7	9.0
	1632.9	9.4	9.0
	1622.9	9.3	9.0
	1612.9	9.1	8.7
	1602.9	8.8	8.5
	1592.9	8.6	8.4
	1582.9	8.4	8.4
	1572.9	8.3	8.4

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
11/23/2010	1874.2	13.4	9.1
	1864.2	13.4	9.1
	1854.2	13.3	8.9
	1844.2	13.2	8.8
	1834.2	13.1	8.5
	1824.2	12.9	8.4
	1814.2	12.9	8.5
	1804.2	12.7	8.8
	1794.2	12.6	9.0
	1784.2	12.4	9.1
	1774.2	12.2	9.2
	1764.2	11.9	9.3
	1754.2	11.7	9.3
	1744.2	11.6	9.3
	1734.2	11.4	9.3
	1724.2	11.2	9.3
	1714.2	11.1	9.3
	1704.2	10.9	9.3
	1694.2	10.7	9.3
	1684.2	10.6	9.3
	1674.2	10.4	9.2
	1664.2	10.2	9.1
	1654.2	10.1	9.0
	1644.2	9.9	9.1
	1634.2	9.7	9.0
	1624.2	9.5	9.0
	1614.2	9.3	8.9
	1604.2	9.0	8.7
	1594.2	8.8	8.6
	1584.2	8.5	8.5
	1574.2	8.4	8.5

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
12/7/2010	1881.3	12.1	9.5
	1871.3	11.9	9.5
	1861.3	11.9	9.4
	1851.3	11.9	9.4
	1841.3	11.9	9.4
	1831.3	11.9	9.4
	1821.3	11.9	9.4
	1811.3	11.9	9.4
	1801.3	11.9	9.3
	1791.3	11.8	9.3
	1781.3	11.5	9.3
	1771.3	11.3	9.3
	1761.3	11.2	9.3
	1751.3	11.1	9.3
	1741.3	10.9	9.3
	1731.3	10.8	9.3
	1721.3	10.7	9.3
	1711.3	10.6	9.3
	1701.3	10.3	9.1
	1691.3	10.3	9.1
	1681.3	10.2	9.1
	1671.3	10.1	9.0
	1661.3	9.9	9.0
	1651.3	9.7	9.0
	1641.3	9.4	8.9
	1631.3	9.3	8.8
	1621.3	9.1	8.6
	1611.3	8.8	8.4
	1601.3	8.6	8.4
	1591.3	8.4	8.4
	1581.3	8.3	8.6

**New Bullards Bar Reservoir - Dissolved Oxygen and Water Temperature Data by Date**

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
12/30/2010	1904.6	10.0	9.8
	1894.6	10.0	9.8
	1884.6	10.0	9.8
	1874.6	10.0	9.8
	1864.6	10.0	9.8
	1854.6	10.0	9.8
	1844.6	10.0	9.8
	1834.6	9.9	9.7
	1824.6	9.9	9.7
	1814.6	9.9	9.5
	1804.6	9.8	9.5
	1794.6	9.6	9.7
	1784.6	9.4	9.8
	1774.6	9.3	9.8
	1764.6	9.3	9.8
	1754.6	9.2	9.8
	1744.6	9.1	9.9
	1734.6	8.9	10.1
	1724.6	8.8	10.1
	1714.6	8.7	10.1
	1704.6	8.7	10.1
	1694.6	8.6	10.1
	1684.6	8.5	10.1
	1674.6	8.5	10.1
	1664.6	8.4	10.1
	1654.6	8.3	10.2
	1644.6	8.2	10.1
	1634.6	8.1	10.0
	1624.6	8.1	10.1
	1614.6	8.0	10.1
	1604.6	8.0	10.1

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
1/6/2011	1903.3	10.3	9.5
	1893.3	9.4	9.4
	1883.3	9.4	9.4
	1873.3	9.4	9.4
	1863.3	9.4	9.4
	1853.3	9.4	9.3
	1843.3	9.4	9.3
	1833.3	9.4	9.3
	1823.3	9.4	9.3
	1813.3	9.4	9.2
	1803.3	9.3	9.1
	1793.3	9.1	9.2
	1783.3	8.9	9.3
	1773.3	8.8	9.4
	1763.3	8.7	9.5
	1753.3	8.6	9.6
	1743.3	8.6	9.6
	1733.3	8.5	9.7
	1723.3	8.4	9.7
	1713.3	8.4	9.7
	1703.3	8.3	9.7
	1693.3	8.2	9.6
	1683.3	8.2	9.6
	1673.3	8.2	9.6
	1663.3	8.1	9.5
	1653.3	8.1	9.4
	1643.3	8.0	9.3
	1633.3	7.9	9.2
	1623.3	7.9	9.0
	1613.3	7.9	8.9
	1603.3	7.9	8.7

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
2/2/2011	1893.3	9.1	10.5
	1883.3	9.1	10.5
	1873.3	8.9	10.4
	1863.3	8.9	10.4
	1853.3	8.9	10.3
	1843.3	8.9	10.3
	1833.3	8.9	10.3
	1823.3	8.9	10.2
	1813.3	8.9	10.2
	1803.3	8.9	10.1
	1793.3	8.8	10.1
	1783.3	8.8	10.1
	1773.3	8.7	9.9
	1763.3	8.5	9.9
	1753.3	8.3	9.9
	1743.3	8.2	9.9
	1733.3	8.1	9.8
	1723.3	7.9	9.9
	1713.3	7.9	9.8
	1703.3	7.8	9.8
	1693.3	7.8	9.8
	1683.3	7.7	9.8
	1673.3	7.7	9.8
	1663.3	7.7	9.8
	1653.3	7.6	9.7
	1643.3	7.6	9.7
	1633.3	7.6	9.6
	1623.3	7.6	9.5
	1613.3	7.6	9.5
	1603.3	7.6	9.4
	1593.3	7.6	9.4

New Bullards Bar Reservoir - Dissolved Oxygen and Water Temperature Data by Date

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
2/15/2011	1889.4	8.7	10.7
	1879.4	8.7	10.6
	1869.4	8.7	10.5
	1859.4	8.7	10.4
	1849.4	8.6	10.3
	1839.4	8.4	10.2
	1829.4	8.3	10.1
	1819.4	8.3	10.1
	1809.4	8.2	10.1
	1799.4	8.2	10.1
	1789.4	8.1	10.1
	1779.4	8.1	10.1
	1769.4	8.0	10.1
	1759.4	7.9	10.1
	1749.4	7.9	10.0
	1739.4	7.8	10.0
	1729.4	7.8	10.0
	1719.4	7.8	10.0
	1709.4	7.7	10.0
	1699.4	7.7	9.9
	1689.4	7.6	9.9
	1679.4	7.6	9.9
	1669.4	7.6	9.8
	1659.4	7.5	9.8
	1649.4	7.5	9.7
	1639.4	7.5	9.6
	1629.4	7.5	9.6
	1619.4	7.4	9.6
	1609.4	7.5	9.5
	1599.4	7.4	9.5
	1589.4	7.6	9.5

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
3/4/2011	1894.5	9.1	10.9
	1884.5	8.2	11.1
	1874.5	8.1	11.0
	1864.5	8.0	10.9
	1854.5	7.9	10.9
	1844.5	7.9	10.8
	1834.5	7.9	10.7
	1824.5	7.9	10.7
	1814.5	7.9	10.6
	1804.5	7.8	10.4
	1794.5	7.8	10.4
	1784.5	7.8	10.3
	1774.5	7.8	10.4
	1764.5	7.8	10.3
	1754.5	7.7	10.1
	1744.5	7.6	10.1
	1734.5	7.6	10.1
	1724.5	7.5	10.1
	1714.5	7.4	10.1
	1704.5	7.3	10.1
	1694.5	7.3	10.1
	1684.5	7.2	10.2
	1674.5	7.1	10.3
	1664.5	7.0	10.3
	1654.5	7.0	10.3
	1644.5	6.9	10.3
	1634.5	6.9	10.2
	1624.5	6.9	10.2
	1614.5	6.9	10.2
	1604.5	6.9	10.2
	1594.5	6.9	10.2

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
3/17/2011	1915.5	9.1	11.0
	1905.5	8.7	11.1
	1895.5	8.5	10.9
	1885.5	8.4	10.8
	1875.5	8.2	10.6
	1865.5	8.1	10.5
	1855.5	7.9	10.3
	1845.5	7.8	10.2
	1835.5	7.8	10.2
	1825.5	7.7	10.2
	1815.5	7.7	10.1
	1805.5	7.6	10.1
	1795.5	7.6	10.1
	1785.5	7.6	10.1
	1775.5	7.5	10.1
	1765.5	7.5	10.1
	1755.5	7.4	10.1
	1745.5	7.4	10.2
	1735.5	7.3	10.2
	1725.5	7.3	10.2
	1715.5	7.2	10.1
	1705.5	7.2	10.1
	1695.5	7.2	10.1
	1685.5	7.1	10.1
	1675.5	7.1	10.0
	1665.5	7.1	10.1
	1655.5	7.0	10.1
	1645.5	6.9	10.1
	1635.5	6.9	10.0
	1625.5	6.9	10.0
	1615.5	6.8	10.0

**New Bullards Bar Reservoir - Dissolved Oxygen and Water Temperature Data by Date**

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
3/31/2011	1915.9	12.5	10.8
	1905.9	9.3	11.3
	1895.9	9.1	11.2
	1885.9	8.9	11.1
	1875.9	8.5	11.0
	1865.9	8.3	10.9
	1855.9	7.8	10.8
	1845.9	7.6	10.7
	1835.9	7.4	10.6
	1825.9	7.4	10.5
	1815.9	7.4	10.5
	1805.9	7.3	10.5
	1795.9	7.3	10.5
	1785.9	7.2	10.5
	1775.9	7.1	10.6
	1765.9	7.0	10.7
	1755.9	6.9	10.7
	1745.9	6.9	10.7
	1735.9	6.8	10.7
	1725.9	6.7	10.6
	1715.9	6.7	10.5
	1705.9	6.6	10.4
	1695.9	6.6	10.3
	1685.9	6.6	10.3
	1675.9	6.6	10.3
	1665.9	6.5	10.5
	1655.9	6.4	10.6
	1645.9	6.4	10.6
	1635.9	6.3	10.6
	1625.9	6.4	10.6
	1615.9	6.4	10.5

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
4/12/2011	1925.4	10.9	10.8
	1915.4	10.3	10.9
	1905.4	10.1	10.9
	1895.4	9.4	10.7
	1885.4	8.2	10.5
	1875.4	7.9	10.3
	1865.4	7.6	10.2
	1855.4	7.6	10.2
	1845.4	7.4	10.2
	1835.4	7.4	10.2
	1825.4	7.3	10.2
	1815.4	7.2	10.2
	1805.4	7.2	10.2
	1795.4	7.1	10.3
	1785.4	7.1	10.3
	1775.4	7.1	10.3
	1765.4	7.1	10.3
	1755.4	6.9	10.4
	1745.4	6.9	10.4
	1735.4	6.9	10.4
	1725.4	6.9	10.4
	1715.4	6.8	10.3
	1705.4	6.8	10.3
	1695.4	6.8	10.3
	1685.4	6.7	10.3
	1675.4	6.7	10.3
	1665.4	6.6	10.3
	1655.4	6.6	10.3
	1645.4	6.4	10.3
	1635.4	6.3	10.3
	1625.4	6.3	10.3

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
5/12/2011	1944.2	15.3	10.1
	1934.2	15.0	10.3
	1924.2	12.8	10.7
	1914.2	9.6	11.0
	1904.2	8.8	11.1
	1894.2	8.4	10.8
	1884.2	8.1	10.4
	1874.2	7.9	10.2
	1864.2	7.8	10.0
	1854.2	7.7	10.0
	1844.2	7.7	10.0
	1834.2	7.6	10.0
	1824.2	7.5	10.1
	1814.2	7.4	10.1
	1804.2	7.4	10.1
	1794.2	7.4	10.2
	1784.2	7.3	10.2
	1774.2	7.3	10.2
	1764.2	7.3	10.2
	1754.2	7.3	10.3
	1744.2	7.2	10.3
	1734.2	7.2	10.3
	1724.2	7.1	10.4
	1714.2	7.1	10.4
	1704.2	7.1	10.4
	1694.2	7.0	10.4
	1684.2	7.0	10.4
	1674.2	6.9	10.4
	1664.2	6.9	10.3
	1654.2	6.9	10.3
	1644.2	6.8	10.3

New Bullards Bar Reservoir - Dissolved Oxygen and Water Temperature Data by Date

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
5/26/2011	1945.3	14.9	10.2
	1935.3	14.4	10.4
	1925.3	12.2	10.9
	1915.3	10.3	11.1
	1905.3	9.6	11.2
	1895.3	8.9	11.2
	1885.3	8.6	11.1
	1875.3	8.3	10.8
	1865.3	8.1	10.4
	1855.3	8.0	10.2
	1845.3	7.9	10.0
	1835.3	7.8	9.9
	1825.3	7.7	9.9
	1815.3	7.7	9.9
	1805.3	7.6	9.9
	1795.3	7.6	10.0
	1785.3	7.5	10.0
	1775.3	7.4	10.0
	1765.3	7.4	10.1
	1755.3	7.3	10.3
	1745.3	7.3	10.3
	1735.3	7.3	10.3
	1725.3	7.3	10.3
	1715.3	7.2	10.4
	1705.3	7.2	10.4
	1695.3	7.1	10.4
	1685.3	7.1	10.4
	1675.3	7.1	10.4
	1665.3	7.1	10.4
	1655.3	7.1	10.3
	1645.3	7.0	10.3

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
6/9/2011	1948.8	16.7	9.9
	1938.8	15.6	10.1
	1928.8	14.7	10.4
	1918.8	10.9	11.2
	1908.8	10.0	11.0
	1898.8	9.5	11.1
	1888.8	9.1	11.0
	1878.8	8.8	11.0
	1868.8	8.5	10.7
	1858.8	8.3	10.6
	1848.8	8.2	10.5
	1838.8	8.1	10.4
	1828.8	7.9	10.0
	1818.8	7.9	9.9
	1808.8	7.8	9.8
	1798.8	7.7	9.8
	1788.8	7.7	9.8
	1778.8	7.7	9.9
	1768.8	7.6	9.9
	1758.8	7.6	9.9
	1748.8	7.6	10.0
	1738.8	7.5	10.1
	1728.8	7.4	10.2
	1718.8	7.4	10.2
	1708.8	7.3	10.3
	1698.8	7.3	10.3
	1688.8	7.2	10.2
	1678.8	7.2	10.2
	1668.8	7.2	10.3
	1658.8	7.2	10.3
	1648.8	7.1	10.3

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
6/30/2011	1953.8	21.9	8.7
	1943.8	20.8	9.2
	1933.8	14.4	10.7
	1923.8	12.5	10.6
	1913.8	11.3	10.6
	1903.8	10.6	10.7
	1893.8	10.1	10.6
	1883.8	9.7	10.7
	1873.8	9.4	10.7
	1863.8	9.1	10.7
	1853.8	8.9	10.7
	1843.8	8.8	10.7
	1833.8	8.6	10.5
	1823.8	8.4	10.5
	1813.8	8.3	10.2
	1803.8	8.2	10.2
	1793.8	8.1	10.0
	1783.8	7.9	9.7
	1773.8	7.9	9.7
	1763.8	7.8	9.8
	1753.8	7.8	10.0
	1743.8	7.7	10.1
	1733.8	7.7	10.1
	1723.8	7.7	10.1
	1713.8	7.6	10.1
	1703.8	7.5	10.2
	1693.8	7.4	10.2
	1683.8	7.4	10.1
	1673.8	7.6	10.0
	1663.8	7.3	10.1
	1653.8	7.4	10.0

**New Bullards Bar Reservoir - Dissolved Oxygen and Water Temperature Data by Date**

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
7/14/2011	1950.0	23.3	8.4
	1940.0	22.9	8.8
	1930.0	17.0	10.0
	1920.0	14.8	10.3
	1910.0	13.5	10.4
	1900.0	12.3	10.4
	1890.0	11.3	10.3
	1880.0	10.7	10.3
	1870.0	10.2	10.4
	1860.0	9.7	10.4
	1850.0	9.5	10.4
	1840.0	9.2	10.4
	1830.0	8.9	10.5
	1820.0	8.8	10.4
	1810.0	8.6	10.3
	1800.0	8.4	10.3
	1790.0	8.3	10.2
	1780.0	8.2	10.1
	1770.0	8.1	10.0
	1760.0	8.0	10.0
	1750.0	7.9	10.1
	1740.0	7.8	10.1
	1730.0	7.8	10.1
	1720.0	7.8	10.1
	1710.0	7.7	10.0
	1700.0	7.7	10.0
	1690.0	7.6	10.0
	1680.0	7.6	10.0
	1670.0	7.6	10.0
	1660.0	7.5	10.0
	1650.0	7.7	9.9

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
7/28/2011	1937.6	25.1	8.3
	1927.6	24.2	9.0
	1917.6	19.9	10.0
	1907.6	15.5	9.7
	1897.6	14.3	9.9
	1887.6	13.5	9.8
	1877.6	12.3	10.0
	1867.6	11.4	10.0
	1857.6	10.9	10.1
	1847.6	10.4	10.1
	1837.6	10.1	10.2
	1827.6	9.6	10.3
	1817.6	9.4	10.3
	1807.6	9.2	10.3
	1797.6	9.0	10.3
	1787.6	8.9	10.3
	1777.6	8.7	10.3
	1767.6	8.6	10.3
	1757.6	8.4	10.2
	1747.6	8.3	10.2
	1737.6	8.3	10.1
	1727.6	8.1	10.1
	1717.6	8.0	10.1
	1707.6	8.0	10.1
	1697.6	7.9	10.0
	1687.6	7.8	9.9
	1677.6	7.8	9.8
	1667.6	7.7	9.8
	1657.6	7.7	9.8
	1647.6	7.7	9.9
	1637.6	7.8	9.8

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
8/11/2011	1921.0	25.9	8.2
	1911.0	24.7	8.6
	1901.0	23.9	9.5
	1891.0	17.6	9.6
	1881.0	15.7	9.6
	1871.0	14.5	9.7
	1861.0	13.4	9.8
	1851.0	12.4	9.8
	1841.0	11.6	10.0
	1831.0	11.1	10.1
	1821.0	10.7	10.1
	1811.0	10.3	10.2
	1801.0	10.1	10.2
	1791.0	9.7	10.2
	1781.0	9.5	10.2
	1771.0	9.3	10.3
	1761.0	9.1	10.3
	1751.0	9.0	10.3
	1741.0	8.8	10.3
	1731.0	8.7	10.3
	1721.0	8.6	10.2
	1711.0	8.5	10.2
	1701.0	8.4	10.2
	1691.0	8.2	10.2
	1681.0	8.2	10.1
	1671.0	8.1	10.1
	1661.0	8.1	10.0
	1651.0	7.9	10.0
	1641.0	7.8	9.9
	1631.0	7.7	9.9
	1621.0	7.6	10.0

New Bullards Bar Reservoir - Dissolved Oxygen and Water Temperature Data by Date

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
8/25/2011	1905.5	24.9	8.3
	1895.5	24.1	8.5
	1885.5	23.4	9.0
	1875.5	18.3	9.4
	1865.5	16.4	9.4
	1855.5	15.2	9.3
	1845.5	14.0	9.5
	1835.5	13.1	9.6
	1825.5	12.3	9.7
	1815.5	11.7	9.8
	1805.5	11.2	9.9
	1795.5	10.8	9.9
	1785.5	10.4	10.0
	1775.5	10.2	10.1
	1765.5	9.9	10.0
	1755.5	9.7	10.1
	1745.5	9.5	10.1
	1735.5	9.3	10.1
	1725.5	9.2	10.2
	1715.5	9.1	10.1
	1705.5	8.9	10.1
	1695.5	8.8	10.1
	1685.5	8.6	10.0
	1675.5	8.5	10.0
	1665.5	8.4	10.0
	1655.5	8.3	10.0
	1645.5	8.2	9.9
	1635.5	8.1	9.9
	1625.5	8.0	9.8
	1615.5	7.9	9.8
	1605.5	7.7	9.8

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
9/7/2011	1900.6	23.9	8.3
	1890.6	23.6	8.3
	1880.6	23.3	8.2
	1870.6	18.9	8.6
	1860.6	17.1	8.9
	1850.6	15.7	9.0
	1840.6	14.5	9.2
	1830.6	13.6	9.3
	1820.6	12.8	9.5
	1810.6	12.1	9.6
	1800.6	11.4	9.7
	1790.6	11.1	9.8
	1780.6	10.7	9.8
	1770.6	10.4	9.9
	1760.6	10.1	9.9
	1750.6	9.9	9.9
	1740.6	9.6	10.0
	1730.6	9.4	10.0
	1720.6	9.3	10.0
	1710.6	9.2	10.0
	1700.6	9.1	10.0
	1690.6	8.9	10.0
	1680.6	8.8	9.9
	1670.6	8.7	9.9
	1660.6	8.6	9.8
	1650.6	8.4	9.7
	1640.6	8.3	9.7
	1630.6	8.1	9.7
	1620.6	7.9	9.6
	1610.6	7.8	9.6
	1600.6	8.1	9.4

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
9/22/2011	1897.0	23.3	8.5
	1887.0	22.8	8.4
	1877.0	22.4	8.4
	1867.0	19.3	8.4
	1857.0	17.6	8.4
	1847.0	16.3	8.6
	1837.0	14.8	8.9
	1827.0	13.9	9.1
	1817.0	12.9	9.3
	1807.0	12.3	9.4
	1797.0	11.8	9.5
	1787.0	11.3	9.6
	1777.0	10.8	9.7
	1767.0	10.5	9.7
	1757.0	10.2	9.8
	1747.0	10.0	9.8
	1737.0	9.8	9.8
	1727.0	9.7	9.8
	1717.0	9.5	9.9
	1707.0	9.3	9.9
	1697.0	9.2	9.9
	1687.0	9.1	9.8
	1677.0	8.9	9.8
	1667.0	8.8	9.7
	1657.0	8.6	9.6
	1647.0	8.5	9.6
	1637.0	8.3	9.6
	1627.0	8.1	9.5
	1617.0	8.0	9.4
	1607.0	7.8	9.4
	1597.0	7.7	9.5

**New Bullards Bar Reservoir - Dissolved Oxygen and Water Temperature Data by Date**

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
10/12/2011	1894.3	18.9	8.6
	1884.3	18.8	8.6
	1874.3	18.8	8.5
	1864.3	18.8	8.4
	1854.3	18.7	8.0
	1844.3	16.4	8.2
	1834.3	15.4	8.5
	1824.3	14.3	8.7
	1814.3	13.5	8.9
	1804.3	12.8	9.1
	1794.3	12.3	9.3
	1784.3	11.6	9.4
	1774.3	11.2	9.5
	1764.3	10.8	9.6
	1754.3	10.6	9.6
	1744.3	10.3	9.7
	1734.3	10.1	9.7
	1724.3	9.9	9.7
	1714.3	9.7	9.7
	1704.3	9.6	9.7
	1694.3	9.4	9.8
	1684.3	9.3	9.8
	1674.3	9.2	9.7
	1664.3	9.0	9.6
	1654.3	8.9	9.6
	1644.3	8.7	9.6
	1634.3	8.6	9.5
	1624.3	8.4	9.4
	1614.3	8.2	9.3
	1604.3	8.1	9.2
	1594.3	7.8	9.2

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
10/26/2011	1892.9	18.2	8.9
	1882.9	18.2	8.8
	1872.9	18.1	8.8
	1862.9	18.1	8.7
	1852.9	18.1	8.6
	1842.9	17.9	8.3
	1832.9	16.3	8.2
	1822.9	15.2	8.4
	1812.9	14.3	8.6
	1802.9	13.8	8.7
	1792.9	13.2	8.9
	1782.9	12.4	9.1
	1772.9	11.8	9.3
	1762.9	11.3	9.4
	1752.9	10.9	9.5
	1742.9	10.6	9.6
	1732.9	10.4	9.6
	1722.9	10.1	9.7
	1712.9	9.9	9.7
	1702.9	9.7	9.7
	1692.9	9.6	9.7
	1682.9	9.4	9.6
	1672.9	9.2	9.6
	1662.9	9.1	9.5
	1652.9	8.9	9.5
	1642.9	8.8	9.4
	1632.9	8.7	9.4
	1622.9	8.5	9.3
	1612.9	8.3	9.2
	1602.9	8.1	9.2
	1592.9	7.9	9.2

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
11/9/2011	1889.6	15.3	9.1
	1879.6	15.3	9.1
	1869.6	15.2	8.9
	1859.6	15.2	8.9
	1849.6	15.2	8.8
	1839.6	15.2	8.7
	1829.6	15.2	8.6
	1819.6	15.1	8.4
	1809.6	13.7	8.7
	1799.6	13.2	8.8
	1789.6	12.8	8.9
	1779.6	12.2	9.1
	1769.6	11.7	9.2
	1759.6	11.2	9.3
	1749.6	10.9	9.4
	1739.6	10.6	9.5
	1729.6	10.4	9.5
	1719.6	10.2	9.6
	1709.6	10.1	9.6
	1699.6	9.9	9.6
	1689.6	9.7	9.6
	1679.6	9.5	9.6
	1669.6	9.3	9.4
	1659.6	9.2	9.4
	1649.6	9.0	9.5
	1639.6	8.9	9.5
	1629.6	8.7	9.4
	1619.6	8.4	9.2
	1609.6	8.2	9.0
	1599.6	7.9	9.0
	1589.6	7.7	9.0

New Bullards Bar Reservoir - Dissolved Oxygen and Water Temperature Data by Date

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
11/22/2011	1887.0	13.7	9.1
	1877.0	13.7	9.1
	1867.0	13.7	9.0
	1857.0	13.7	8.9
	1847.0	13.7	8.9
	1837.0	13.7	8.9
	1827.0	13.7	8.9
	1817.0	13.7	8.8
	1807.0	13.7	8.8
	1797.0	12.9	8.7
	1787.0	12.4	8.9
	1777.0	12.2	8.9
	1767.0	11.8	9.0
	1757.0	11.5	9.1
	1747.0	11.3	9.2
	1737.0	11.0	9.3
	1727.0	10.7	9.3
	1717.0	10.4	9.4
	1707.0	10.3	9.4
	1697.0	10.1	9.4
	1687.0	9.9	9.4
	1677.0	9.7	9.4
	1667.0	9.6	9.2
	1657.0	9.4	9.2
	1647.0	9.2	9.2
	1637.0	9.0	9.2
	1627.0	8.8	9.0
	1617.0	8.6	8.9
	1607.0	8.2	8.9
	1597.0	7.9	8.9
	1587.0	7.7	9.0

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
12/7/2011	1884.4	12.5	9.4
	1874.4	12.2	9.5
	1864.4	12.2	9.4
	1854.4	12.2	9.3
	1844.4	12.2	9.3
	1834.4	12.2	9.3
	1824.4	12.2	9.2
	1814.4	12.2	9.2
	1804.4	12.2	9.2
	1794.4	12.2	9.1
	1784.4	12.1	9.1
	1774.4	12.1	9.0
	1764.4	11.4	9.1
	1754.4	11.1	9.1
	1744.4	10.9	9.2
	1734.4	10.8	9.2
	1724.4	10.6	9.3
	1714.4	10.5	9.3
	1704.4	10.4	9.3
	1694.4	10.2	9.3
	1684.4	10.0	9.3
	1674.4	9.9	9.2
	1664.4	9.7	9.1
	1654.4	9.4	9.1
	1644.4	9.3	9.1
	1634.4	9.0	9.0
	1624.4	8.8	8.9
	1614.4	8.6	8.8
	1604.4	8.2	8.7
	1594.4	7.8	8.6
	1584.4	7.6	8.7

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
12/19/2011	1882.3	11.3	9.6
	1872.3	11.3	9.6
	1862.3	11.3	9.5
	1852.3	11.2	9.5
	1842.3	11.2	9.4
	1832.3	11.2	9.4
	1822.3	11.2	9.4
	1812.3	11.2	9.4
	1802.3	11.2	9.3
	1792.3	11.2	9.3
	1782.3	11.2	9.3
	1772.3	11.2	9.3
	1762.3	11.2	9.2
	1752.3	11.2	9.2
	1742.3	10.7	9.3
	1732.3	10.6	9.3
	1722.3	10.4	9.3
	1712.3	10.3	9.3
	1702.3	10.2	9.2
	1692.3	10.1	9.1
	1682.3	9.9	9.2
	1672.3	9.9	9.0
	1662.3	9.7	9.0
	1652.3	9.6	9.0
	1642.3	9.4	9.0
	1632.3	8.9	8.7
	1622.3	8.4	8.6
	1612.3	8.2	8.7
	1602.3	8.2	8.6
	1592.3	7.9	8.6
	1582.3	7.7	8.7

**New Bullards Bar Reservoir - Dissolved Oxygen and Water Temperature Data by Date**

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
1/4/2012	1878.6	11.1	9.9
	1868.6	10.5	9.9
	1858.6	10.4	9.9
	1848.6	10.4	9.9
	1838.6	10.4	9.9
	1828.6	10.4	9.8
	1818.6	10.4	9.8
	1808.6	10.4	9.8
	1798.6	10.4	9.8
	1788.6	10.4	9.8
	1778.6	10.4	9.7
	1768.6	10.4	9.7
	1758.6	10.4	9.7
	1748.6	10.4	9.7
	1738.6	10.3	9.5
	1728.6	10.1	9.4
	1718.6	10.0	9.3
	1708.6	9.9	9.3
	1698.6	9.8	9.1
	1688.6	9.7	9.0
	1678.6	9.7	8.9
	1668.6	9.6	8.8
	1658.6	9.4	8.7
	1648.6	9.3	8.7
	1638.6	9.2	8.7
	1628.6	9.1	8.8
	1618.6	9.0	8.9
	1608.6	8.7	8.7
	1598.6	8.2	8.7
	1588.6	7.8	8.7
	1578.6	7.7	8.7

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
1/16/2012	1875.3	10.1	9.9
	1865.3	10.0	9.8
	1855.3	9.9	9.8
	1845.3	9.9	9.8
	1835.3	9.9	9.8
	1825.3	9.9	9.7
	1815.3	9.9	9.7
	1805.3	9.9	9.7
	1795.3	9.9	9.7
	1785.3	9.9	9.7
	1775.3	9.9	9.7
	1765.3	9.9	9.7
	1755.3	9.9	9.6
	1745.3	9.9	9.5
	1735.3	9.9	9.4
	1725.3	9.8	8.7
	1715.3	9.7	8.7
	1705.3	9.7	8.6
	1695.3	9.7	8.6
	1685.3	9.6	8.7
	1675.3	9.5	8.7
	1665.3	9.4	8.7
	1655.3	9.3	8.6
	1645.3	9.2	8.5
	1635.3	9.2	8.4
	1625.3	9.2	8.3
	1615.3	8.8	8.4
	1605.3	8.7	8.5
	1595.3	8.2	8.4
	1585.3	7.8	8.5
	1575.3	7.7	8.5

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
1/31/2012	1881.1	9.8	10.2
	1871.1	9.7	10.2
	1861.1	9.6	10.1
	1851.1	9.6	10.1
	1841.1	9.6	10.1
	1831.1	9.6	10.1
	1821.1	9.6	10.1
	1811.1	9.6	10.1
	1801.1	9.6	10.0
	1791.1	9.6	10.0
	1781.1	9.6	9.9
	1771.1	9.6	9.9
	1761.1	9.6	9.8
	1751.1	9.5	9.3
	1741.1	9.4	8.8
	1731.1	9.3	8.7
	1721.1	9.2	8.7
	1711.1	9.1	8.6
	1701.1	9.1	8.6
	1691.1	8.9	8.5
	1681.1	8.8	8.5
	1671.1	8.7	8.4
	1661.1	8.4	8.3
	1651.1	8.3	8.3
	1641.1	8.1	8.4
	1631.1	8.1	8.5
	1621.1	7.9	8.6
	1611.1	7.9	8.5
	1601.1	7.8	8.3
	1591.1	7.7	8.4
	1581.1	7.6	8.5

New Bullards Bar Reservoir - Dissolved Oxygen and Water Temperature Data by Date

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
2/16/2012	1881.3	10.4	10.2
	1871.3	9.5	10.3
	1861.3	9.4	10.3
	1851.3	9.4	10.2
	1841.3	9.4	10.2
	1831.3	9.4	10.2
	1821.3	9.4	10.2
	1811.3	9.4	10.1
	1801.3	9.4	10.1
	1791.3	9.4	10.1
	1781.3	9.4	10.1
	1771.3	9.4	10.0
	1761.3	9.4	9.7
	1751.3	9.2	8.6
	1741.3	9.1	8.6
	1731.3	8.9	8.6
	1721.3	8.9	8.6
	1711.3	8.8	8.5
	1701.3	8.7	8.6
	1691.3	8.6	9.0
	1681.3	8.4	9.3
	1671.3	8.3	9.6
	1661.3	8.3	9.7
	1651.3	8.2	9.7
	1641.3	8.1	9.6
	1631.3	8.1	9.6
	1621.3	8.1	9.4
	1611.3	8.1	9.0
	1601.3	7.9	8.4
	1591.3	7.8	8.3
	1581.3	7.7	8.4

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
2/28/2012	1881.5	9.5	10.5
	1871.5	9.5	10.5
	1861.5	9.4	10.5
	1851.5	9.4	10.4
	1841.5	9.4	10.4
	1831.5	9.4	10.3
	1821.5	9.4	10.2
	1811.5	9.4	10.0
	1801.5	9.4	9.7
	1791.5	9.3	9.3
	1781.5	9.3	9.0
	1771.5	9.2	8.7
	1761.5	9.1	8.6
	1751.5	9.0	8.6
	1741.5	8.9	8.6
	1731.5	8.8	8.6
	1721.5	8.8	8.7
	1711.5	8.7	8.9
	1701.5	8.6	9.2
	1691.5	8.5	9.4
	1681.5	8.4	9.5
	1671.5	8.3	9.6
	1661.5	8.2	9.7
	1651.5	8.2	9.6
	1641.5	8.1	9.5
	1631.5	8.1	9.3
	1621.5	8.0	9.0
	1611.5	7.9	8.7
	1601.5	7.8	8.3
	1591.5	7.8	8.2
	1581.5	7.7	8.4

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
3/21/2012	1914.9	10.1	10.5
	1904.9	9.7	10.5
	1894.9	9.5	10.4
	1884.9	9.3	10.3
	1874.9	9.2	10.1
	1864.9	9.0	10.0
	1854.9	9.0	10.0
	1844.9	9.0	10.0
	1834.9	9.0	9.7
	1824.9	8.9	9.3
	1814.9	8.7	9.5
	1804.9	8.4	9.7
	1794.9	8.3	9.8
	1784.9	8.3	9.7
	1774.9	8.2	9.7
	1764.9	8.2	9.4
	1754.9	8.1	9.3
	1744.9	8.0	9.2
	1734.9	7.9	9.2
	1724.9	7.9	9.4
	1714.9	7.8	9.4
	1704.9	7.8	9.2
	1694.9	7.8	9.0
	1684.9	7.7	8.8
	1674.9	7.7	8.6
	1664.9	7.7	8.4
	1654.9	7.6	8.3
	1644.9	7.6	8.3
	1634.9	7.4	8.2
	1624.9	7.4	8.2
	1614.9	7.5	8.2

**New Bullards Bar Reservoir - Dissolved Oxygen and Water Temperature Data by Date**

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
4/5/2012	1927.1	10.6	10.6
	1917.1	10.1	10.7
	1907.1	9.9	10.7
	1897.1	9.8	10.5
	1887.1	9.5	10.3
	1877.1	9.3	10.0
	1867.1	9.1	9.9
	1857.1	8.9	9.8
	1847.1	8.8	9.6
	1837.1	8.7	9.5
	1827.1	8.5	9.5
	1817.1	8.4	9.6
	1807.1	8.3	9.6
	1797.1	8.3	9.6
	1787.1	8.2	9.6
	1777.1	8.2	9.5
	1767.1	8.1	9.5
	1757.1	8.1	9.6
	1747.1	8.0	9.7
	1737.1	7.9	9.8
	1727.1	7.9	9.9
	1717.1	7.8	9.9
	1707.1	7.8	9.9
	1697.1	7.7	9.8
	1687.1	7.6	9.8
	1677.1	7.6	9.9
	1667.1	7.4	9.9
	1657.1	7.4	10.1
	1647.1	7.2	10.2
	1637.1	7.1	10.3
	1627.1	7.2	10.2

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
4/19/2012	1932.3	13.9	10.2
	1922.3	12.6	10.4
	1912.3	12.3	10.3
	1902.3	10.3	10.1
	1892.3	9.3	9.8
	1882.3	9.1	9.6
	1872.3	8.8	9.6
	1862.3	8.7	9.5
	1852.3	8.6	9.5
	1842.3	8.5	9.5
	1832.3	8.4	9.5
	1822.3	8.4	9.5
	1812.3	8.3	9.5
	1802.3	8.2	9.5
	1792.3	8.2	9.5
	1782.3	8.1	9.6
	1772.3	8.1	9.6
	1762.3	7.9	9.9
	1752.3	7.9	10.1
	1742.3	7.8	10.2
	1732.3	7.8	10.4
	1722.3	7.7	10.4
	1712.3	7.7	10.5
	1702.3	7.6	10.6
	1692.3	7.6	10.6
	1682.3	7.4	10.6
	1672.3	7.4	10.6
	1662.3	7.3	10.7
	1652.3	7.2	10.7
	1642.3	7.2	10.7
	1632.3	7.2	10.7

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
5/2/2012	1949.4	16.6	9.7
	1939.4	15.9	9.9
	1929.4	13.3	10.1
	1919.4	10.9	10.3
	1909.4	10.3	10.3
	1899.4	9.8	9.9
	1889.4	9.3	9.6
	1879.4	9.1	9.4
	1869.4	8.9	9.4
	1859.4	8.7	9.4
	1849.4	8.7	9.4
	1839.4	8.6	9.4
	1829.4	8.5	9.5
	1819.4	8.4	9.5
	1809.4	8.4	9.5
	1799.4	8.3	9.5
	1789.4	8.3	9.6
	1779.4	8.2	9.6
	1769.4	8.2	9.5
	1759.4	8.1	9.6
	1749.4	8.1	9.7
	1739.4	8.0	9.8
	1729.4	8.0	10.1
	1719.4	7.9	10.2
	1709.4	7.8	10.2
	1699.4	7.8	10.3
	1689.4	7.7	10.3
	1679.4	7.7	10.4
	1669.4	7.7	10.5
	1659.4	7.6	10.5
	1649.4	7.6	10.5

New Bullards Bar Reservoir - Dissolved Oxygen and Water Temperature Data by Date

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
5/16/2012	1953.3	19.7	9.1
	1943.3	18.8	9.5
	1933.3	15.7	10.4
	1923.3	11.9	10.2
	1913.3	10.8	10.0
	1903.3	10.2	9.9
	1893.3	9.8	9.7
	1883.3	9.4	9.4
	1873.3	9.2	9.4
	1863.3	9.1	9.3
	1853.3	8.9	9.3
	1843.3	8.8	9.4
	1833.3	8.7	9.4
	1823.3	8.6	9.4
	1813.3	8.5	9.5
	1803.3	8.4	9.5
	1793.3	8.4	9.4
	1783.3	8.3	9.5
	1773.3	8.3	9.5
	1763.3	8.2	9.5
	1753.3	8.2	9.6
	1743.3	8.1	9.7
	1733.3	8.1	9.9
	1723.3	8.0	10.0
	1713.3	8.0	10.1
	1703.3	7.9	10.1
	1693.3	7.9	10.2
	1683.3	7.8	10.3
	1673.3	7.8	10.3
	1663.3	7.7	10.3
	1653.3	7.7	10.3

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
5/30/2012	1952.0	20.1	9.0
	1942.0	19.3	10.0
	1932.0	15.7	10.2
	1922.0	13.3	10.3
	1912.0	11.9	10.3
	1902.0	11.0	9.9
	1892.0	10.4	9.7
	1882.0	9.8	9.5
	1872.0	9.5	9.3
	1862.0	9.2	9.2
	1852.0	9.0	9.2
	1842.0	8.9	9.2
	1832.0	8.8	9.2
	1822.0	8.7	9.3
	1812.0	8.7	9.3
	1802.0	8.6	9.3
	1792.0	8.5	9.3
	1782.0	8.4	9.4
	1772.0	8.4	9.4
	1762.0	8.3	9.4
	1752.0	8.3	9.5
	1742.0	8.2	9.5
	1732.0	8.2	9.5
	1722.0	8.2	9.7
	1712.0	8.1	9.9
	1702.0	8.1	9.9
	1692.0	7.9	10.0
	1682.0	7.9	10.1
	1672.0	7.9	10.1
	1662.0	7.8	10.2
	1652.0	7.8	10.2

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
6/11/2012	1949.6	21.2	8.7
	1939.6	20.2	9.0
	1929.6	20.0	9.9
	1919.6	14.7	10.3
	1909.6	12.7	10.2
	1899.6	11.7	10.2
	1889.6	10.9	9.9
	1879.6	10.2	9.6
	1869.6	9.8	9.3
	1859.6	9.6	9.2
	1849.6	9.2	9.2
	1839.6	9.0	9.2
	1829.6	8.9	9.2
	1819.6	8.9	9.2
	1809.6	8.7	9.3
	1799.6	8.7	9.3
	1789.6	8.7	9.2
	1779.6	8.5	9.4
	1769.6	8.4	9.4
	1759.6	8.4	9.4
	1749.6	8.3	9.5
	1739.6	8.3	9.6
	1729.6	8.2	9.7
	1719.6	8.2	9.7
	1709.6	8.1	9.8
	1699.6	8.1	9.9
	1689.6	8.0	10.0
	1679.6	8.0	10.0
	1669.6	7.9	10.0
	1659.6	7.9	10.1
	1649.6	7.9	9.9

**New Bullards Bar Reservoir - Dissolved Oxygen and Water Temperature Data by Date**

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
7/26/2012	1920.9	24.9	7.0
	1910.9	24.8	7.0
	1900.9	24.7	7.4
	1890.9	20.6	8.3
	1880.9	17.3	8.9
	1870.9	14.8	8.8
	1860.9	12.8	8.3
	1850.9	11.4	8.2
	1840.9	10.9	8.1
	1830.9	10.2	8.1
	1820.9	9.8	7.9
	1810.9	9.6	7.8
	1800.9	9.4	7.8
	1790.9	9.2	7.8
	1780.9	9.1	7.8
	1770.9	8.9	7.9
	1760.9	8.8	8.0
	1750.9	8.8	8.0
	1740.9	8.7	8.0
	1730.9	8.6	8.2
	1720.9	8.6	8.3
	1710.9	8.5	8.4
	1700.9	8.4	8.4
	1690.9	8.4	8.5
	1680.9	8.4	8.5
	1670.9	8.3	8.5
	1660.9	8.3	8.6
	1650.9	8.3	8.5
	1640.9	8.2	8.6
	1630.9	8.1	8.7
	1620.9	8.1	8.7

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
8/8/2012	1908.9	26.1	6.8
	1898.9	25.1	7.2
	1888.9	24.8	7.4
	1878.9	21.7	8.2
	1868.9	18.6	8.0
	1858.9	16.0	8.0
	1848.9	13.6	8.0
	1838.9	12.1	8.1
	1828.9	11.3	8.0
	1818.9	10.8	7.9
	1808.9	10.2	7.8
	1798.9	9.9	7.8
	1788.9	9.6	7.7
	1778.9	9.3	7.7
	1768.9	9.2	7.7
	1758.9	9.0	7.8
	1748.9	8.9	7.8
	1738.9	8.9	7.9
	1728.9	8.8	8.0
	1718.9	8.7	8.1
	1708.9	8.7	8.2
	1698.9	8.6	8.3
	1688.9	8.6	8.3
	1678.9	8.4	8.4
	1668.9	8.4	8.4
	1658.9	8.4	8.3
	1648.9	8.3	8.4
	1638.9	8.3	8.5
	1628.9	8.3	8.5
	1618.9	8.1	8.6
	1608.9	8.1	8.6

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
8/23/2012	1893.5	25.72	6.9
	1883.5	25.17	7.02
	1873.5	24.89	7.07
	1863.5	22.44	7.44
	1853.5	19.44	7.6
	1843.5	16.94	7.89
	1833.5	14.61	7.95
	1823.5	13.00	7.97
	1813.5	11.94	8.01
	1803.5	11.33	7.94
	1793.5	10.78	7.87
	1783.5	10.33	7.82
	1773.5	10.06	7.78
	1763.5	9.83	7.72
	1753.5	9.56	7.66
	1743.5	9.33	7.67
	1733.5	9.17	7.79
	1723.5	9.06	7.89
	1713.5	8.94	7.95
	1703.5	8.89	8.02
	1693.5	8.72	8.08
	1683.5	8.72	8.12
	1673.5	8.61	8.15
	1663.5	8.56	8.19
	1653.5	8.44	8.21
	1643.5	8.39	8.27
	1633.5	8.33	8.32
	1623.5	8.22	8.34
	1613.5	8.11	8.38
	1603.5	8.11	8.41
	1593.5	8.00	8.41

New Bullards Bar Reservoir - Dissolved Oxygen and Water Temperature Data by Date

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
9/6/2012	1886.14	24.1	7.05
	1876.14	23.4	7.09
	1866.14	23.3	7.04
	1856.14	23.2	6.87
	1846.14	20.0	7.24
	1836.14	17.7	7.56
	1826.14	15.5	7.78
	1816.14	13.7	7.85
	1806.14	12.3	7.89
	1796.14	11.6	8
	1786.14	10.9	7.85
	1776.14	10.6	7.85
	1766.14	10.2	7.83
	1756.14	9.9	7.74
	1746.14	9.7	7.68
	1736.14	9.4	7.62
	1726.14	9.3	7.61
	1716.14	9.2	7.75
	1706.14	9.1	7.84
	1696.14	8.9	7.91
	1686.14	8.9	7.96
	1676.14	8.8	8.02
	1666.14	8.7	8.07
	1656.14	8.6	8.08
	1646.14	8.6	8.06
	1636.14	8.4	8.1
	1626.14	8.4	8.09
	1616.14	8.2	8.15
	1606.14	8.1	8.18
	1596.14	8.1	8.14
	1586.14	8.1	8.11

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
9/19/2012	1880.38	22.9	7.08
	1870.38	22.9	7.05
	1860.38	22.8	6.94
	1850.38	22.7	6.47
	1840.38	20.1	6.85
	1830.38	17.8	7.14
	1820.38	15.9	7.28
	1810.38	14.1	7.5
	1800.38	12.7	7.58
	1790.38	11.7	7.68
	1780.38	11.2	7.69
	1770.38	10.5	7.64
	1760.38	10.3	7.61
	1750.38	10.1	7.6
	1740.38	9.8	7.55
	1730.38	9.6	7.52
	1720.38	9.4	7.57
	1710.38	9.3	7.61
	1700.38	9.2	7.73
	1690.38	9.1	7.82
	1680.38	9.0	7.85
	1670.38	8.8	7.92
	1660.38	8.8	7.96
	1650.38	8.7	8.01
	1640.38	8.6	8
	1630.38	8.4	7.98
	1620.38	8.3	7.98
	1610.38	8.2	7.94
	1600.38	8.1	7.93
	1590.38	7.9	7.91
	1580.38	7.9	7.92

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
10/3/2012	1873.79	22.3	7.03
	1863.79	22.0	7.03
	1853.79	21.9	6.85
	1843.79	21.9	6.62
	1833.79	21.6	6.31
	1823.79	18.6	6.83
	1813.79	15.9	7.18
	1803.79	14.8	7.29
	1793.79	13.2	7.48
	1783.79	12.2	7.62
	1773.79	11.4	7.59
	1763.79	11.0	7.52
	1753.79	10.6	7.52
	1743.79	10.2	7.55
	1733.79	10.1	7.53
	1723.79	9.8	7.49
	1713.79	9.6	7.51
	1703.79	9.4	7.59
	1693.79	9.3	7.65
	1683.79	9.2	7.69
	1673.79	9.1	7.74
	1663.79	8.9	7.84
	1653.79	8.8	7.88
	1643.79	8.8	7.91
	1633.79	8.6	7.9
	1623.79	8.5	7.77
	1613.79	8.3	7.76
	1603.79	8.2	7.74
	1593.79	8.0	7.68
	1583.79	7.8	7.72
	1573.79	7.7	7.77

New Bullards Bar Reservoir - Dissolved Oxygen and Water Temperature Data by Date

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
10/16/2012	1868.42	20.9	7.03
	1858.42	20.1	7.07
	1848.42	20.0	7.03
	1838.42	19.9	6.95
	1828.42	19.9	6.68
	1818.42	19.4	6.43
	1808.42	17.1	6.88
	1798.42	15.2	7.12
	1788.42	13.8	7.42
	1778.42	12.7	7.5
	1768.42	11.9	7.58
	1758.42	11.2	7.6
	1748.42	10.9	7.56
	1738.42	10.4	7.55
	1728.42	10.2	7.53
	1718.42	10.0	7.49
	1708.42	9.7	7.51
	1698.42	9.6	7.6
	1688.42	9.4	7.56
	1678.42	9.3	7.58
	1668.42	9.2	7.61
	1658.42	9.1	7.67
	1648.42	8.9	7.71
	1638.42	8.8	7.77
	1628.42	8.7	7.7
	1618.42	8.5	7.66
	1608.42	8.3	7.65
	1598.42	8.1	7.6
	1588.42	7.9	7.57
	1578.42	8.0	7.58
	1568.42	7.8	7.72

**Englebright Reservoir, Near Dam - Dissolved Oxygen and Water Temperature Data by Date**

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
10/27/2010	520.1	24.1	10.0
	510.1	20.2	9.9
	500.1	15.1	9.9
	490.1	12.9	9.9
	480.1	11.7	9.8
	470.1	10.3	9.8
	460.1	10.4	10.2
	450.1	10.1	10.1
	440.1	9.8	9.5
	430.1	9.6	8.8
	420.1	9.0	8.7

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
11/9/2010	519.6	23.3	10.1
	509.6	17.1	10.0
	499.6	14.3	9.4
	489.6	12.3	9.6
	479.6	11.4	9.9
	469.6	10.9	9.9
	459.6	10.3	9.7
	449.6	9.9	9.5
	439.6	9.7	9.0
	429.6	9.4	8.6
	419.6	9.1	8.9

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
11/23/2010	521.4	21.9	10.3
	511.4	17.4	10.3
	501.4	14.0	10.3
	491.4	12.7	10.4
	481.4	11.8	10.3
	471.4	11.2	9.9
	461.4	10.9	9.0
	451.4	10.7	7.8
	441.4	10.6	6.6
	431.4	9.9	6.7
	421.4	9.7	6.5

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
12/7/2010	524.5	22.1	10.4
	514.5	20.7	10.4
	504.5	15.6	10.4
	494.5	13.3	10.3
	484.5	12.1	10.3
	474.5	11.6	10.4
	464.5	11.1	10.5
	454.5	10.6	10.5
	444.5	10.7	10.5
	434.5	10.0	10.5
	424.5	10.1	10.6

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
1/26/2011	518.6	15.8	10.4
	508.6	15.4	10.5
	498.6	13.4	10.4
	488.6	12.3	10.4
	478.6	12.1	10.4
	468.6	12.0	10.4
	458.6	11.9	10.5
	448.6	11.7	10.6
	438.6	11.6	10.6
	428.6	11.6	10.6
	418.6	11.4	10.6

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
2/15/2011	518.8	11.6	11.8
	508.8	11.0	11.8
	498.8	10.8	11.8
	488.8	10.7	11.7
	478.8	10.6	11.6
	468.8	10.6	11.5
	458.8	10.3	11.5
	448.8	10.3	11.5
	438.8	10.2	11.4
	428.8	10.1	11.3
	418.8	10.1	11.3

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
3/4/2011	524.0	10.8	12.1
	514.0	9.9	12.2
	504.0	9.4	12.1
	494.0	9.2	12.1
	484.0	9.0	12.0
	474.0	8.9	12.0
	464.0	8.7	11.9
	454.0	8.6	12.0
	444.0	8.4	11.9
	434.0	8.4	11.8
	424.0	8.4	11.8

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
4/27/2011	529.2	13.9	11.8
	519.2	12.0	12.0
	509.2	10.3	12.0
	499.2	9.8	12.0
	489.2	9.1	12.0
	479.2	8.6	12.0
	469.2	8.2	11.9
	459.2	8.0	11.8
	449.2	7.8	11.8
	439.2	7.7	11.8
	429.2	7.3	11.7

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
5/12/2011	528.4	13.6	11.6
	518.4	12.7	11.8
	508.4	12.1	11.9
	498.4	11.8	11.8
	488.4	11.2	11.7
	478.4	11.0	11.7
	468.4	10.6	11.6
	458.4	10.1	11.6
	448.4	9.3	11.6
	438.4	8.9	11.6
	428.4	8.4	11.5

**Englebright Reservoir, Near Dam - Dissolved Oxygen and Water Temperature Data by Date**

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
5/26/2011	528.6	13.7	11.5
	518.6	13.1	11.6
	508.6	12.7	11.7
	498.6	11.4	11.7
	488.6	10.4	11.6
	478.6	9.8	11.6
	468.6	9.2	11.5
	458.6	9.0	11.5
	448.6	8.8	11.5
	438.6	8.8	11.5
	428.6	8.6	11.5

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
6/9/2011	528.5	14.4	11.7
	518.5	13.3	11.8
	508.5	12.6	11.9
	498.5	11.2	11.8
	488.5	10.6	11.9
	478.5	10.4	11.9
	468.5	10.1	11.8
	458.5	9.7	11.8
	448.5	8.8	11.8
	438.5	8.4	11.7
	428.5	8.3	11.6

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
6/30/2011	529.2	15.0	11.0
	519.2	14.6	11.4
	509.2	13.7	11.3
	499.2	11.3	11.2
	489.2	10.6	11.2
	479.2	10.2	11.2
	469.2	9.9	11.1
	459.2	9.7	11.0
	449.2	9.4	11.0
	439.2	9.3	10.9
	429.2	9.3	10.9

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
7/14/2011	526.8	16.0	10.5
	516.8	13.9	11.4
	506.8	12.2	11.2
	496.8	11.6	11.4
	486.8	11.2	11.4
	476.8	11.1	11.4
	466.8	10.7	11.4
	456.8	10.6	11.4
	446.8	10.7	11.3
	436.8	10.2	11.1
	426.8	9.9	10.9

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
7/28/2011	521.5	15.9	9.9
	511.5	13.0	11.0
	501.5	11.9	11.7
	491.5	11.4	11.6
	481.5	11.3	11.6
	471.5	11.2	11.3
	461.5	10.9	11.2
	451.5	10.8	11.0
	441.5	10.6	10.8
	431.5	10.6	10.6
	421.5	10.4	10.4

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
8/11/2011	520.0	22.9	10.2
	510.0	15.6	11.4
	500.0	12.4	11.9
	490.0	11.9	11.8
	480.0	11.5	11.6
	470.0	11.3	11.6
	460.0	11.2	11.4
	450.0	11.0	11.2
	440.0	10.8	10.7
	430.0	10.6	10.5

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
9/7/2011	518.0	22.6	9.4
	508.0	18.8	9.9
	498.0	15.2	11.0
	488.0	13.3	11.0
	478.0	12.3	10.7
	468.0	11.8	10.7
	458.0	11.3	10.8
	448.0	10.8	10.6
	438.0	10.7	10.5
	428.0	10.6	10.5
	418.0	10.7	10.1

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
9/22/2011	518.8	23.1	9.4
	508.8	18.1	10.1
	498.8	15.7	10.8
	488.8	13.7	10.5
	478.8	12.7	10.4
	468.8	12.1	10.4
	458.8	11.6	10.3
	448.8	11.2	10.2
	438.8	11.0	10.1
	428.8	10.7	10.1
	418.8	10.6	10.1

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
10/12/2011	520.9	19.2	10.0
	510.9	17.3	10.2
	500.9	13.3	10.0
	490.9	12.6	10.4
	480.9	11.9	10.2
	470.9	11.6	10.3
	460.9	11.2	10.1
	450.9	11.0	10.0
	440.9	10.9	9.8
	430.9	10.6	9.6
	420.9	10.3	9.7

**Englebright Reservoir, Near Dam - Dissolved Oxygen and Water Temperature Data by Date**

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
10/26/2011	520.2	19.1	10.0
	510.2	18.7	10.2
	500.2	15.1	10.4
	490.2	13.6	9.9
	480.2	12.7	10.0
	470.2	12.1	10.1
	460.2	11.7	9.9
	450.2	11.2	9.8
	440.2	10.3	9.4
	430.2	10.0	9.4
	420.2	9.9	9.5

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
11/9/2011	518.9	19.7	10.5
	508.9	18.7	10.5
	498.9	15.0	10.4
	488.9	13.6	10.1
	478.9	12.9	10.2
	468.9	12.2	10.1
	458.9	11.9	9.7
	448.9	11.6	9.3
	438.9	11.0	8.9
	428.9	10.1	8.8
	418.9	9.9	9.0

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
11/22/2011	520.0	18.8	10.9
	510.0	18.1	10.8
	500.0	15.2	10.6
	490.0	13.9	10.4
	480.0	13.1	9.9
	470.0	12.4	9.4
	460.0	12.1	8.3
	450.0	11.8	8.3
	440.0	11.2	8.6
	430.0	10.3	8.5
	420.0	10.0	8.4

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
12/7/2011	520.2	14.3	10.9
	510.2	14.4	10.9
	500.2	14.4	10.8
	490.2	13.6	10.8
	480.2	12.9	10.8
	470.2	12.7	10.8
	460.2	12.3	10.9
	450.2	11.9	10.9
	440.2	11.6	10.8
	430.2	11.2	10.8
	420.2	10.4	10.8

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
12/19/2011	519.2	14.4	11.4
	509.2	13.9	11.4
	499.2	13.9	11.3
	489.2	12.8	11.3
	479.2	11.7	11.2
	469.2	11.5	11.2
	459.2	11.4	11.1
	449.2	11.3	11.1
	439.2	11.2	11.0
	429.2	10.9	10.9
	419.2	10.3	10.8

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
1/4/2012	518.7	10.9	11.5
	508.7	10.9	11.5
	498.7	10.8	11.4
	488.7	10.6	11.4
	478.7	10.6	11.3
	468.7	10.4	11.2
	458.7	10.3	11.1
	448.7	10.3	11.0
	438.7	10.2	10.9
	428.7	10.1	10.9
	418.7	10.0	10.9

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
1/16/2012	520.3	10.2	11.4
	510.3	9.8	11.4
	500.3	9.8	11.4
	490.3	9.7	11.4
	480.3	9.7	11.3
	470.3	9.6	11.3
	460.3	9.4	11.3
	450.3	9.2	11.3
	440.3	9.2	11.3
	430.3	9.1	11.2
	420.3	9.0	11.2

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
1/31/2012	519.7	8.3	12.0
	509.7	8.1	11.8
	499.7	8.1	11.6
	489.7	8.0	11.6
	479.7	8.0	11.4
	469.7	7.9	11.4
	459.7	7.9	11.3
	449.7	7.9	11.2
	439.7	7.9	11.1
	429.7	7.9	11.1
	419.7	7.9	11.1

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
2/16/2012	519.9	8.3	10.7
	509.9	7.8	10.6
	499.9	7.8	10.5
	489.9	7.7	10.4
	479.9	7.7	10.1
	469.9	7.7	9.9
	459.9	7.7	9.7
	449.9	7.6	9.6
	439.9	7.6	9.4
	429.9	7.6	9.4
	419.9	7.5	9.3

**Englebright Reservoir, Near Dam - Dissolved Oxygen and Water Temperature Data by Date**

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
8/23/2012	522.7	20.6	10.1
	512.7	15.3	10.1
	502.7	10.8	10.1
	492.7	10.1	10.1
	482.7	9.9	10.0
	472.7	9.7	9.8
	462.7	9.6	9.7
	452.7	9.6	9.4
	442.7	9.6	8.6
	432.7	9.5	7.9
	422.7	9.4	7.5

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
9/6/2012	519.5	19.2	9.3
	509.5	15.3	10.1
	499.5	11.6	10.1
	489.5	10.7	9.8
	479.5	10.2	9.6
	469.5	10.2	9.6
	459.5	9.8	9.6
	449.5	9.7	8.6
	439.5	9.7	8.3
	429.5	9.7	7.4
	419.5	9.6	7.2

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
9/19/2012	520.5	21.5	9.1
	510.5	20.0	9.4
	500.5	13.6	9.4
	490.5	12.7	9.4
	480.5	11.8	9.3
	470.5	11.0	9.0
	460.5	10.4	8.7
	450.5	9.9	7.4
	440.5	9.7	7.1
	430.5	9.6	7.0
	420.5	9.6	6.9

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
10/3/2012	522.2	20.9	8.9
	512.2	20.3	9.4
	502.2	15.3	9.3
	492.2	14.0	9.4
	482.2	13.3	9.3
	472.2	12.5	9.1
	462.2	11.9	8.8
	452.2	11.4	8.2
	442.2	9.9	7.5
	432.2	9.6	7.1
	422.2	9.6	7.0

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
10/16/2012	521.4	17.2	9.2
	511.4	16.6	9.3
	501.4	15.7	9.2
	491.4	13.9	9.2
	481.4	12.7	9.2
	471.4	12.1	9.0
	461.4	11.7	8.5
	451.4	11.5	7.5
	441.4	11.1	7.2
	431.4	10.1	6.9
	421.4	9.7	6.9

**Englebright Reservoir, Upstream - Dissolved Oxygen and Water Temperature Data by Date**

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
4/5/2011	528.4	10.4	11.9
	518.4	8.7	11.9
	508.4	8.3	12.0
	498.4	8.2	12.1
	488.4	8.1	12.0
	478.4	8.0	11.9
	468.4	7.9	11.8
	458.4	7.9	11.8
	448.4	7.8	11.7
	438.4	7.5	11.7
	428.4	7.4	11.7

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
4/12/2011	527.1	10.8	12.1
	517.1	9.5	12.4
	507.1	9.2	12.4
	497.1	9.2	12.4
	487.1	9.2	12.3
	477.1	9.1	12.2
	467.1	9.1	12.2
	457.1	9.1	12.1
	447.1	8.9	12.1
	437.1	8.7	12.0
	427.1	8.4	12.1

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
4/27/2011	529.2	11.7	11.8
	519.2	10.1	12.0
	509.2	9.9	12.0
	499.2	9.9	12.0
	489.2	9.8	12.0
	479.2	9.8	12.0
	469.2	9.7	11.9
	459.2	9.5	11.8
	449.2	9.3	11.8
	439.2	9.1	11.7
	429.2	8.9	11.5

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
5/12/2011	528.4	12.5	11.7
	518.4	10.6	11.8
	508.4	9.8	11.8
	498.4	9.6	11.8
	488.4	9.5	11.7
	478.4	9.4	11.7
	468.4	9.4	11.7
	458.4	9.3	11.5
	448.4	9.3	11.4
	438.4	9.2	11.4
	428.4	9.1	11.1

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
5/26/2011	528.6	12.1	11.3
	518.6	10.9	11.7
	508.6		11.8
	498.6	10.3	11.9
	488.6	10.2	11.8
	478.6	9.9	11.8
	468.6	9.4	11.7
	458.6	9.1	11.7
	448.6	8.9	11.6
	438.6	8.8	11.6
	428.6	8.7	11.7

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
6/9/2011	528.5	14.1	11.7
	518.5	11.7	11.7
	508.5	11.5	11.6
	498.5	11.4	11.7
	488.5	11.3	11.7
	478.5	11.3	11.8
	468.5	11.2	11.8
	458.5	11.1	11.8
	448.5	11.1	11.8
	438.5	10.8	11.7
	428.5	10.3	11.5

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
6/30/2011	529.2	17.2	10.8
	519.2	13.2	11.4
	509.2	11.5	11.3
	499.2	11.2	11.4
	489.2	11.1	11.3
	479.2	10.9	11.2
	469.2	10.8	11.2
	459.2	10.8	11.1
	449.2	10.6	11.0
	439.2	10.5	10.9
	429.2	10.3	11.0

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
7/14/2011	526.8	17.0	10.8
	516.8	13.6	12.4
	506.8	10.8	11.7
	496.8	10.3	11.6
	486.8	10.2	11.6
	476.8	10.0	11.6
	466.8	9.8	11.5
	456.8	9.8	11.5
	446.8	9.9	11.3
	436.8	9.9	11.3
	426.8	9.9	11.0

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
7/28/2011	521.5	16.9	10.8
	511.5	14.7	11.4
	501.5	10.7	12.0
	491.5	10.1	11.9
	481.5	9.9	11.8
	471.5	9.8	11.7
	461.5	9.7	11.6
	451.5	9.6	11.6
	441.5	9.6	11.2
	431.5	9.5	10.8
	421.5	9.4	9.8

**Englebright Reservoir, Upstream - Dissolved Oxygen and Water Temperature Data by Date**

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
8/11/2011	520.0	15.9	10.9
	510.0	13.8	11.1
	500.0	10.9	12.0
	490.0	10.3	11.9
	480.0	10.2	11.9
	470.0	10.0	11.8
	460.0	9.7	11.8
	450.0	9.6	11.7
	440.0	9.6	11.7
	430.0	9.6	11.6
	420.0		11.6

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
8/25/2011	516.8	20.2	10.9
	506.8	18.4	11.6
	496.8	14.0	11.5
	486.8	13.1	11.4
	476.8	12.6	11.3
	466.8	12.0	11.3
	456.8	11.4	11.0
	446.8	10.9	10.9
	436.8	10.6	10.6
	426.8	10.1	10.5
	416.8	9.7	

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
9/7/2011	518.0	20.4	9.7
	508.0	17.9	10.2
	498.0	15.0	10.7
	488.0	14.0	10.5
	478.0	13.3	10.7
	468.0	12.9	10.9
	458.0	12.4	10.9
	448.0	12.2	10.5
	438.0	11.2	9.7
	428.0	11.0	9.3
	418.0		9.5

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
9/22/2011	518.8	17.1	9.7
	508.8	15.6	10.3
	498.8	14.2	10.3
	488.8	13.3	10.5
	478.8	12.8	10.5
	468.8	12.3	10.7
	458.8	12.3	10.7
	448.8	11.9	10.5
	438.8	11.5	10.1
	428.8	11.1	10.1
	418.8	10.6	

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
11/9/2011	518.9	10.8	10.7
	508.9	10.6	10.8
	498.9	10.5	10.8
	488.9	10.1	10.8
	478.9	9.9	10.8
	468.9	9.8	10.8
	458.9	9.8	10.8
	448.9	9.7	10.8
	438.9	9.7	10.9
	428.9	9.6	10.6
	418.9	9.6	10.7

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
12/7/2011	520.2	8.3	11.2
	510.2	8.1	11.2
	500.2	7.9	11.1
	490.2	7.9	11.1
	480.2	7.9	11.0
	470.2	7.9	11.1
	460.2	7.9	11.0
	450.2	7.9	11.0
	440.2	7.9	11.0
	430.2	7.8	11.0
	420.2	7.7	11.0

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
1/4/2012	518.7	8.1	11.4
	508.7	7.8	11.4
	498.7	7.8	11.3
	488.7	7.8	11.2
	478.7	7.8	11.1
	468.7	7.8	11.0
	458.7	7.8	11.0
	448.7	7.8	10.9
	438.7	7.8	10.8
	428.7	7.8	10.7
	418.7	7.7	10.5

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
1/16/2012	520.3	8.6	11.4
	510.3	7.9	11.4
	500.3	7.9	11.4
	490.3	7.8	11.3
	480.3	7.8	11.3
	470.3	7.8	11.3
	460.3	7.8	11.3
	450.3	7.7	11.3
	440.3	7.7	11.1
	430.3	7.7	10.8
	420.3	7.7	10.8

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
1/31/2012	519.7	9.9	11.4
	509.7	8.9	11.4
	499.7	8.6	11.3
	489.7	8.5	11.3
	479.7	8.4	11.3
	469.7	8.3	11.3
	459.7	8.1	11.3
	449.7	7.9	11.3
	439.7	7.8	11.3
	429.7	7.8	11.3
	419.7	7.8	11.3

**Englebright Reservoir, Upstream - Dissolved Oxygen and Water Temperature Data by Date**

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
2/16/2012	519.9	9.3	10.5
	509.9	9.2	10.3
	499.9	9.0	10.2
	489.9	8.9	10.2
	479.9	8.7	10.1
	469.9	8.3	10.0
	459.9	8.2	9.8
	449.9	8.1	9.7
	439.9	8.1	9.6
	429.9	8.0	9.5
	419.9		9.4

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
2/28/2012	517.6	10.9	11.4
	507.6	8.8	11.4
	497.6	8.5	11.2
	487.6	8.4	11.1
	477.6	8.3	11.1
	467.6	8.3	10.8
	457.6	8.3	10.8
	447.6	8.2	10.8
	437.6	8.2	10.5
	427.6	8.1	10.6
	417.6	8.0	

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
3/21/2012	519.1	11.2	11.4
	509.1	9.5	11.8
	499.1	9.2	11.8
	489.1	9.0	11.8
	479.1	8.8	11.8
	469.1	8.7	11.8
	459.1	8.6	11.8
	449.1	8.5	11.8
	439.1	8.4	11.8
	429.1	8.4	11.9
	419.1	7.9	11.9

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
4/5/2012	518.7	13.7	11.6
	508.7	10.4	11.7
	498.7	9.9	11.6
	488.7	9.6	11.4
	478.7	9.3	11.4
	468.7	9.0	11.3
	458.7	8.8	11.3
	448.7	8.6	11.3
	438.7	8.6	11.3
	428.7	8.4	11.2
	418.7	8.3	10.7

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
4/19/2012	521.3	12.3	11.1
	511.3	10.6	11.5
	501.3	10.2	11.6
	491.3	10.0	11.6
	481.3	9.9	11.5
	471.3	9.7	11.5
	461.3	9.4	11.5
	451.3	9.4	11.5
	441.3	9.3	11.4
	431.3	8.9	11.4
	421.3	8.8	11.6

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
5/2/2012	528.0	18.4	11.5
	518.0	14.2	11.6
	508.0	13.2	11.7
	498.0	12.7	11.7
	488.0	12.3	11.7
	478.0	11.8	11.7
	468.0	11.4	11.7
	458.0	10.5	11.7
	448.0	9.6	11.6
	438.0	9.3	11.7
	428.0	9.0	11.7

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
5/16/2012	519.2	18.2	10.6
	509.2	14.7	10.9
	499.2	13.2	11.1
	489.2	12.1	10.9
	479.2	11.4	10.8
	469.2	11.3	10.8
	459.2	11.0	10.8
	449.2	10.8	10.7
	439.2	10.4	10.8
	429.2	10.3	10.5
	419.2	10.1	10.9

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
5/30/2012	521.0	19.4	10.2
	511.0	17.3	10.7
	501.0	14.0	11.2
	491.0	12.4	11.3
	481.0	11.6	11.6
	471.0	11.2	11.6
	461.0	11.1	11.6
	451.0	10.9	11.5
	441.0	10.7	11.5
	431.0	10.3	11.5
	421.0	10.1	11.7

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
6/11/2012	521.6	18.9	9.9
	511.6	16.8	10.4
	501.6	14.3	10.8
	491.6	13.6	11.0
	481.6	12.4	11.2
	471.6	11.7	11.2
	461.6	11.4	11.2
	451.6	11.2	11.1
	441.6	10.6	10.7
	431.6	10.1	10.7
	421.6	9.7	10.9

**Englebright Reservoir, Upstream - Dissolved Oxygen and Water Temperature Data by Date**

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
7/26/2012	519.9	19.4	8.6
	509.9	17.2	9.7
	499.9	13.2	10.0
	489.9	11.7	10.1
	479.9	11.1	10.1
	469.9	10.8	9.9
	459.9	10.7	9.6
	449.9	10.4	9.1
	439.9	10.3	7.9
	429.9	10.0	8.0
	419.9	9.8	8.6

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
8/8/2012	520.8	19.4	8.7
	510.8	17.2	9.2
	500.8	13.2	9.9
	490.8	11.7	10.1
	480.8	11.1	10.2
	470.8	10.8	10.3
	460.8	10.7	10.2
	450.8	10.4	10.2
	440.8	10.3	10.0
	430.8	10.0	10.1
	420.8	9.8	10.4

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
8/23/2012	522.7	19.1	8.6
	512.7	17.1	9.2
	502.7	13.2	9.7
	492.7	11.1	10.2
	482.7	10.9	10.3
	472.7	10.7	10.4
	462.7	10.6	10.4
	452.7	10.6	10.2
	442.7	10.4	10.1
	432.7	10.2	9.9
	422.7	9.9	9.7

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
9/6/2012	519.5	19.4	8.3
	509.5	17.1	8.8
	499.5	13.3	9.5
	489.5	12.6	9.7
	479.5	12.2	9.6
	469.5	11.6	9.7
	459.5	11.2	9.5
	449.5	10.7	9.2
	439.5	10.4	8.3
	429.5	10.0	7.6
	419.5	9.8	7.9

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
9/19/2012	520.45	19.1	8.43
	510.45	18.4	8.66
	500.45	15.0	9.23
	490.45	13.3	9.61
	480.45	12.9	9.63
	470.45	12.3	9.64
	460.45	12.1	9.57
	450.45	11.7	9.43
	440.45	11.4	8.97
	430.45	11.1	8.88
	420.45	10.8	9.48

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
10/3/2012	522.18	18.9	8.48
	512.18	17.4	8.92
	502.18	14.3	9.29
	492.18	13.3	9.4
	482.18	12.4	9.6
	472.18	12.1	9.67
	462.18	11.8	9.66
	452.18	11.7	9.6
	442.18	11.3	9.42
	432.18	11.3	9.27
	422.18	11.1	9.48

Date	Elevation (ft)	Water Temperature (°C)	DO (mg/L)
10/16/2012	521.37	17.1	8.74
	511.37	15.5	9.16
	501.37	13.9	9.23
	491.37	12.9	9.26
	481.37	12.2	9.25
	471.37	11.7	9.3
	461.37	11.4	9.3
	451.37	11.3	9.16
	441.37	11.1	8.89
	431.37	10.9	8.64
	421.37	10.7	9.02

## **Technical Memorandum 2-5**

### **Water Temperature Monitoring**

#### **Attachment 2-5D**

#### **Stream Temperature DSS**

**Yuba River Development Project**  
**FERC Project No. 2246**

September 2013

©2013, Yuba County Water Agency  
*All Rights Reserved*



Yuba County Water Agency  
Yuba River Development Project  
FERC Project No. 2246

Attachment 2-5D of Technical Memorandum 2-5 – Water Temperature Monitoring consists of one DVD containing a PDF file of United States Army Corps of Engineers’ Hydrologic Engineering Center’s Data Storage System (HEC-DSS) Instructions and two data files in the HEC-DSS format (\*.dss) of the stream temperature data and margin temperature for YCWA’s Yuba River Development Project. Due to the HEC-DSS file type, the files on the DVD cannot be uploaded to FERC’s e-Library system. YCWA will file a copy of the DVD with FERC.

A copy of the DVD can be obtained by contacting:

Curt Aikens  
General Manager  
Yuba County Water Agency  
Office: 530.741.6278 x 115  
[caikens@ycwa.com](mailto:caikens@ycwa.com)  
[www.ycwa.com](http://www.ycwa.com)

Please include the subject, “Request for Attachment 2-5D, Stream Temperature DSS files on DVD” in your email or voice message and provide a return address to which the DVD may be sent.

Yuba County Water Agency  
Yuba River Development Project  
FERC Project No. 2246

Page Left Blank

**Technical Memorandum 2-5**

**Water Temperature Monitoring**

**Attachment 2-5E**

**Reservoir and Stream Temperature  
Raw Data**

**Yuba River Development Project  
FERC Project No. 2246**

September 2013

©2013, Yuba County Water Agency  
*All Rights Reserved*



Attachment 2-5E of Technical Memorandum 2-5 – Water Temperature Monitoring consists of one DVD containing the raw data files utilized to analyze data collected by study site at YCWA's Yuba River Development. Due to size, the files on the DVD cannot be uploaded to FERC's e-Library system. Licensee will file a copy of the DVD with FERC.

A copy of the DVD can be obtained by contacting:

Curt Aikens  
General Manager  
Yuba County Water Agency  
Office 530.741.6278 x 115  
[caikens@ycwa.com](mailto:caikens@ycwa.com)  
[www.ycwa.com](http://www.ycwa.com)

Please include the subject, “Request for Attachment 2-5E, Water Temperature Monitoring data files on DVD” in your email or voice message and provide a return address to which the DVD may be sent.

Yuba County Water Agency  
Yuba River Development Project  
FERC Project No. 2246

Page Left Blank